

The background of the upper half of the page is a photograph of two modern, cylindrical skyscrapers with glass facades, set against a blue sky with scattered white clouds. The image is partially overlaid by a semi-transparent blue geometric shape on the right side.

HI-LINK PRODUCT CATALOG(2025)

16 Years of Professional AIoT Module Manufacturer

Communication Module, Power Module and Sensor Module

About Us



SHENZHEN HI-LINK ELECTRONIC CO., LTD.

- ◆ Hi-Link is a high-tech enterprise specialized in communication module, power module, and sensor module, integrating R&D, production, and sales service.
- ◆ Over the past 16 years, Hi-Link has provided more than 100000 customers with WiFi module, BLE module, AC-DC/DC-DC power module, sensor module, and other OEM/ODM products to over 100 countries.
- ◆ We focus on various fields such as IoT smart home, consumer electronics, smart wearables, industrial and agricultural control, and provide one-stop IOT solution.



Hi-Link has strong R&D capabilities and a number of independent intellectual property rights. The core R&D team are from well-known listed companies with years of experience in IOT industry.

Hi-Link always adheres to the product policy of "creating value, customer first, following the trend, and striving for excellence", insists on independent innovation, grows together with customers, and provides customers with high-quality products and services.



Company Honors



High-tech Enterprises
Certificates



Innovative SMEs



Specialized and
Sophisticated SMEs



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Isolation stabilized voltage output

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10-15W Low-Power, Isolation Power Converter Module

International standard voltage input
Isolation stabilized voltage output

10W&10W-B series	26
10W-T series(5W package)	26
10W-LS series(5W package)	26
15W-C series (with EMC)	26
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International standard voltage input
Isolation stabilized voltage output

20W&20W-B series	27-28
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Rated voltage input,
isolated stabilized/non-stabilized voltage output

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Wide voltage input, isolated stabilized voltage output

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COMMUNICATION MODULE SERIES

5G Dual Band Serial WiFi Module Series(BLE 4.2/5.0)

2.4G/5.8G dual band WiFi+BLE bluetooth 4.2

PRODUCT FEATURES

- Compliant with 802.11 a/b/g/n wireless standards
- Dual-band 1T1R with data rates up to 150Mbps
- Dedicated high-performance 32-bit RISC CPU
- Integrated ARM Cortex-M4 MCU with FPU up to 192MHz
- Support BLE bluetooth networking and bluetooth data transmission
- Support one-touch networking and over-the-air (OTA) upgrades
- Support AP, STA and BLE mixed modes



HLK-RM58S/RM58M



HLK-RM58F

TECHNICAL DATA

Product Model	HLK-RM58S/RM58M	HLK-RM58F
Network standard	IEEE 802.11 a/b/g/n BLE4.2	IEEE 802.11 a/b/g/n BLE5.0
Channel centre frequency range	2.412GHz~2.484GHz 5.180GHz~5.825GHz	2.412GHz~2.484GHz 5.180GHz~5.825GHz
Transmit power	14-20dBm	14-20dBm
Receiving sensitivity	-88dBm ~ -75dBm	-88dBm ~ -75dBm
Number of channels	1-13,36-161	1-13,36-161
Bandwidth	20MHz/40MHz/Auto	20MHz/40MHz/Auto
Hardware interface	UART, GPIO, I ² C, PWM, SPI etc	UART, GPIO, I ² C, PWM, SPI etc
RAM/Flash	SRAM: 352K/Flash: 4MB	SRAM: 352K/Flash: 4MB
Operating voltage	RM58S: 5V RM58M: 3.3V	5V
GPIO drive	Max: 16mA	Max: 16mA
Working current	Continuous transmit: 100mA average/ 120mA peak Normal mode: 100mA average/ 110mA peak	Continuous transmit: 100mA average/ 120mA peak Normal mode: 100mA average/ 110mA peak
Serial baud rate	1200-921600bps	110-921600bps
Maximum number of connections	2 (TCP Client) /5 (TCP server)	2 (TCP Client) /5 (TCP server)
Working mode	STA/AP mode	STA/AP mode
Security mechanism	WEP/WPA/WPA2	WEP/WPA/WPA2
Encryption type	64/128/152-bit WEP encryption	64/128/152-bit WEP encryption
Firmware upgrade	Serial upgrade, wireless upgrade	Serial upgrade, wireless upgrade
Network protocols	IPv4, TCP/UDP	IPv4, TCP/UDP
User configuration	AT Command configuration, blue-tooth networking, Web Configuration	AT Command configuration, blue-tooth networking
Working environment	-40°C ~+80°C /10%~85%RH non-condensing	-40°C ~+85°C /10%~85%RH non-condensing
Storage environment	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing
Antenna type	External antenna (2.4G/5.8G dual-band antenna)	External antenna (2.4G/5.8G dual-band antenna)
Appearance size(mm)	RM58S: 30*22*3.2 RM58M: 18*18*3.2	40.2*29*3.5
Package	SMT	SMT

Serial WiFi+BLE Module Series

2.4G WiFi+BLE bluetooth 5.2/5.0/4.2

Low power consumption

PRODUCT FEATURES

- Compliant with 802.11 b/g/n wireless standards and bluetooth BLE5.0/5.2
- Support AP/STA and BLE hybrid modes
- Ultra-wide operating voltage: 3.3V typical
- Maximum transmit power 20/18dBm, sensitivity -98dBm
- Support multiple encryption methods WEP64/WEP128/TKIP/AES
- Rich peripheral interfaces, UART, GPIO, I²C, PWM, SPI
- Widely used in IOT



HLK-B35S



HLK-B35



TECHNICAL DATA

Product Model	HLK-B35	HLK-B35S(Low-Power Consumption)
Network standard	IEEE 802.11 b/g/n BLE5.0	IEEE 802.11 b/g/n BLE5.2
Channel centre frequency range	2.412GHz~2.484GHz	2.412GHz~2.484GHz
Transmit power	WiFi: 16-20dBm/Bluetooth: 0-15dBm	WiFi: 12-18dBm/Bluetooth: 0-10dBm
Receiving sensitivity	WiFi: -98dBm~-77dBm/Bluetooth: -97dBm	WiFi: -98dBm~-77dBm/Bluetooth: -98dBm
Number of channels	1-11	1-14
Bandwidth	20MHz/40MHz/Auto	20MHz/40MHz/Auto
Hardware interface	UART, GPIO, I ² C, PWM, SPI etc	UART, GPIO, I ² C, PWM, SPI etc
RAM/Flash	SRAM: 276K /Flash: 2MB	SRAM: 288K /Flash: 2MB
Operating voltage	3.3V	3.3V
GPIO drive	Max: 12mA	Max: 12mA
Working current	Average 50mA/Peak 260mA	Average 30mA/Peak 400mA
No-load current	44mA	30mA
Other mode current	/	Active mode RX: 30mA Normal standby mode: 300uA Low voltage standby mode: 75uA Shutdown mode: 0.5uA
Serial baud rate	110-921600bps	110-921600bps
Maximum number of connections	1 (TCP Client) /5 (TCP Server)	1 (TCP Client) /5 (TCP Server)
Working mode	STA/AP mode	STA/AP mode
Security mechanism	WPS/WEP/WPA/WPA2/WPA3	WPS/WEP/WPA/WPA2 Personal/WPA2 enterprise
Encryption type	WEP64/WEP128/TKIP/AES	WEP64/WEP128/TKIP/AES
Firmware upgrade	Serial port upgrade	Serial port upgrade
Network protocols	IPv4, TCP/UDP, Lwip	IPv4, TCP/UDP, Lwip
User configuration	AT command configuration	AT command configuration
Working environment	-40°C ~+80°C /10%~85%RH non-condensing	-40°C ~+105°C /10%~85%RH non-condensing
Storage environment	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing
Antenna type dimensions	External antenna/Onboard antenna	External antenna/Onboard antenna
Appearance size(mm)	24*16.2*1.6 (without pin)	24*16.2*1.6 (without pin)
Package	SMT	SMT

OpenWrt Router WiFi Module Series(MediaTek Chip)

**Small size, High-performance
Support OpenWrt development**

PRODUCT FEATURES

- Adopts high-performance MediaTek MT7688AN/MT7628NN/MT7628DN chipset
- Integrated 580MHz MIPS® 24KEC™ CPU
- Complies with 802.11 b/g/n wireless standards
- Support 1T1R/2T2R 2.4 GHz with wireless speeds up to 150/300Mbps
- Support Router/AP/STA/AP Client/Bridge functions
- Built-in 128MB/64MB RAM and 32MB FLASH with customizable capacity
- Support OpenWrt secondary development for customer-defined customization



HLK-7688A/AS/AF/AL



HLK-7628N/NS/NF/NL

TECHNICAL DATA

Product Model	HLK-7688A/AS/AC/AF/AL	HLK-7628N/NE/NS/NC/NF/NL
Network standards	IEEE 802.11 b/g/n / IEEE 802.3/802.3u	IEEE 802.11 b/g/n / IEEE 802.3/802.3u
Channel center frequency range	2.412GHz~2.484GHz	2.412GHz~2.484GHz
Transmission power	15~20dBm	15~20dBm
Receiving sensitivity	-88dBm~ -75dBm	-88dBm~ -75dBm
Number of channels	1-14	1-14
Frequency band bandwidth	20MHz/40MHz/automatic	20MHz/40MHz/automatic
Network port	100Mbps Ethernet port *5	100Mbps Ethernet port *5
Silicon solution	MT7688AN	MT7628NN
Hardware interface	UART, GPIO, I ² C, PWM, SPI etc	UART, GPIO, I ² C, PWM, SPI etc
RAM/Flash	7688AS: 64MB /16MB 7688AC: 64MB /32MB 7688A(regular): 128MB /32MB 7688AF: 256MB /32MB 7688AL: 256MB /64MB	7628NE: 64MB /8MB 7628NS: 64MB /16MB 7628NC: 64MB /32MB 7628N(regular): 128MB /32MB 7628NF: 256MB /32MB 7628NL: 256MB /64MB
Operating voltage	3.3V	3.3V
GPIO driver	4mA	4mA
Operating current	Average 200mA	Average 250mA
Serial port baud rate	1200~230400bps(default value 115200bps)	1200~230400bps(default value 115200bps)
Maximum connection	20~30 (TCP/UDP)	20~30 (TCP/UDP)
Operating mode	Router/AP/STA/AP client/bridge mode	Router/AP/STA/AP client/bridge mode
Security mechanism	WEP/WPA-PSK/WPA2-PSK	WEP/WPA-PSK/WPA2-PSK
Encryption type	64/128/152 bit WEP encryption	64/128/152 bit WEP encryption
Firmware update	Serial port /wireless/network port upgrade	Serial port /wireless/network port upgrade
Network protocol	IPv4, TCP/UDP	IPv4, TCP/UDP
User configuration	AT command configuration, webpage configuration	AT command configuration, webpage configuration
Operating environment	-40°C ~+80°C /10%~85%RH non condensing (with periphery added)	-40°C ~+80°C /10%~85%RH non condensing (with periphery added)
Storage environment	-40°C ~+85°C /5%~90%RH non condensing	-40°C ~+85°C /5%~90%RH non condensing
Antenna type	External antenna	External antenna
Appearance size(mm)	33.2*18.7*2.2	35.5*18.7*2.2
Package type	SMT	SMT

Router WiFi Module Series (MediaTek Chip)

High performance, High integration,
Low cost, Dual serial ports and five network ports

PRODUCT FEATURES

- Adopts MediaTek MT7688KN/MT7628KN chipset
- Integrated 580MHz MIPS® 24KEC™ CPU
- Complies with 802.11 b/g/n wireless standards
- 1T1R 2.4 GHz with wireless speeds up to 150Mbps
- Support router/AP/STA/AP Client/Bridge functions
- Built-in 8MB RAM/2MB FLASH
- Support wireless configuration



HLK-RM08K



HLK-RM08S



TECHNICAL DATA

Product Model	HLK-RM08K	HLK-RM08S
Network standards	IEEE 802.11 b/g/n / IEEE 802.3/802.3u	IEEE 802.11 b/g/n / IEEE 802.3/802.3u
Channel center frequency range	2.412GHz~2.484GHz	2.412GHz~2.484GHz
Transmission power	15-20dBm	15-20dBm
Receiving sensitivity	-88dBm~ -75dBm	-88dBm~ -75dBm
Number of channels	1-11	1-11
Frequency band bandwidth	20MHz/40MHz/automatic	20MHz/40MHz/automatic
Network port	100Mbps Ethernet port *5	100Mbps Ethernet port *5
Silicon solution	MT7688KN	MT7688KN
Hardware interface	UART, GPIO, I ² C, PWM, SPI etc	UART, GPIO, I ² C, PWM, SPI etc
RAM/Flash	RAM: 8MB/Flash: 2MB	RAM: 8MB/Flash: 2MB
Operating voltage	5V/3.3V	3.3V
GPIO driver	4~8mA	4~8mA
Operating current	Average 200mA	Average 200mA
Serial port baud rate	1200bps-2Mbps	1200bps-2Mbps
Maximum connection	20~30 (TCP/UDP)	20~30 (TCP/UDP)
Operating mode	Router/AP/STA/AP client/bridge mode	Router/AP/STA/AP client/bridge mode
Security mechanism	WPA-PSK/WPA2-PSK/WPA/WPA2	WEP/WPA-PSK/WPA2-PSK
Encryption type	64/128/152 bit WEP encryption	64/128/152 bit WEP encryption
Firmware update	Wireless, network port upgrade	Wireless, network port upgrade
Network protocol	IPv4, TCP/UDP, DHCP, HTTP, FTP	IPv4, TCP/UDP, DHCP, HTTP, FTP
User configuration	AT command configuration, webpage configuration, mobile APP configuration	AT command configuration, webpage configuration, serial port tool, mobile APP configuration
Operating environment	-20°C ~+70°C /10%~85%RH non condensing (with periphery added)	-20°C ~+70°C /10%~85%RH non condensing
Storage environment	-40°C ~+85°C /5%~90%RH non condensing	-40°C ~+85°C /5%~90%RH non condensing
Antenna type	External antenna	External antenna
Appearance size(mm)	40.2*29*4 (without pins)	25.8*17.5*2.5
Package type	SMT/PIN	SMT

Gigabit Router Module Series

High performance and high integration
Support OpenWrt development

PRODUCT FEATURES

- Support serial and web-based firmware upgrades
- Module power supply voltage: DC 3.3V
- Adopts MediaTek MT7981BA/MT7621A chipsets
- Integrated 6/5-ports 10/100/1000 Mbps ethernet switch
- Includes 2Gbps IPv4/6 NAT, QoS, SAMBA, and VPN hardware accelerators
- Support gigabit-level LAN bandwidth, ideal for large data downloads and backups
- Support OpenWrt secondary development, with SDK development kit provided



HLK-RM20



HLK-7621

TECHNICAL DATA

Product Model	HLK-RM20	HLK-7621
Main frequency	1.3GHz	880MHz
Silicon solution	MT7981BA+MT7531AE	MT7621A
Kernel	Dual core ARM cortex-A53MPCoreTM	MIPS1004Kc (880MHz) dual core
Network port	1000Mbps Ethernet port *6	1000Mbps Ethernet port *5
Hardware interface	UART,GPIO, SPI,USB,PWM, I2C, PCM	GPIO, I2C, JTAG, MDC, MDIO
RAM/Flash	DDR3:256MB/Nand Flash:256MB	DDR3: 256MB/Nor Flash:32MB
Operating voltage	3.3V	3.3V
GPIO driver	Max: 12mA	Max: 12mA
Operating current	Average: 600mA Peak value:<1A	Average: 500mA Peak value:<1A
Serial port baud rate	115200bps	57600bps
Operating mode	Router	Router
Support system	OpenWrt 21.02 (MTK)	Openwrt 14.07, Openwrt 19.07
Firmware update	Upgrade of network command and webpage	Upgrade of network command and webpage
Network protocol	TCP/UDP	TCP/UDP
Switich	SGMII	5p GSW + RGMII(1)
PCIe	PCIe*1	PCIe*3
USB	USB3.0*1	USB3.0*1/USB2.0*2
UART lite	UART*3	UART*3
Flash interface	SPI NAND	SPI, SLC NAND
Audio interface	PCM	SPDIF-Tx, I ² S, PCM
SD	/	SD-XC (class 10)
Operating environment	-20°C ~+80°C /10%~85%RH non condensing	0°C ~+60°C /10%~85%RH non condensing
Storage environment	-40°C ~+85°C /5%~90%RH non condensing	-40°C ~+85°C /5%~90%RH non condensing
Appearance size(mm)	58*63	50*50*3

WiFi6 Gigabit Router WiFi Module Series

2.4G/5G dual band, Support OpenWrt development
5/6 gigabit ethernet ports

PRODUCT FEATURES

- Compatible with IEEE 802.11 a/b/g/n/ac/ax
- Support 2.4G/5.8G frequency bands, with data rates up to 574+1201/574+2402Mbps
- Support 5/6 gigabit ethernet ports
- Powered by 3.3V
- Channel center frequency range:
2.412GHz~2.484GHz, 5.180GHz~5.825GHz
- Built-in IPv4, TCP/UDP protocol stack



HLK-RM60



HLK-RM65



HLK-RM68

TECHNICAL DATA

Product Model	HLK-RM60	HLK-RM65	HLK-RM68
Network standards	IEEE 802.11 a/b/g/n/ac/ax	IEEE 802.11 a/b/g/n/ac/ax	MIMO IEEE 802.11 a/b/g/n/ac/ax
Channel center frequency range	2.412GHz~2.484GHz / 5.180GHz~5.825GHz	2.412GHz~2.484GHz / 5.180GHz~5.825GHz	2.412GHz~2.484GHz / 5.180GHz~5.825GHz
Transmission power	14-22dBm	2.4GHz: 15dBm-24.5dBm / 5GHz: 14dBm-21.5dBm	2.4GHz: 19dBm-25dBm / 5GHz: 17dBm-22dBm
Maximum wireless transmission rate	AX1800	AX3000	AX3000
Receiving sensitivity	-88dBm~-52dBm	-93.5dBm~-53dBm	-93.5dBm~-53dBm
Number of channels	2.4G frequency band: 1-14 5.8G frequency band: 36-165	2.4G frequency band: 1-14 5.8G frequency band: 36-165	2.4G frequency band: 1-14 5.8G frequency band: 36-165
Frequency band bandwidth	20MHz/40MHz/80MHz	20MHz/40MHz/80MHz/160MHz	20MHz/40MHz/80MHz/160MHz
Main frequency	880MHz	1.3GHz	1GHz
Silicon solution	MT7621+MT7905+MT7975	MT7981B+MT7976C+MT7531A	IPQ5018+QCA8337+QCN6102
Network port	1000Mbps Ethernet port *5	1000Mbps Ethernet port *6	1000Mbps Ethernet port *6 WAN*1, LAN*5
Hardware interface	UART/I2C/PWM/GPIO/SPI/USB2.0&3.0	UART/I2C/GPIO/SPI/USB/PWM/USB3.0	UART,GPIO, SPI,USB,PWM,IIC
RAM/Flash	DDR3: 256MB/Nor Flash: 16MB	DDR3:256MB/Nand Flash:128MB	DDR3: 256M(2Gbit)/ Nand Flash: 128M(1Gbit)
Operating voltage	3.3V	3.3V	5V
GPIO driver	Max: 12mA	Max: 12mA	Max: 12mA
Operating current	Continuously sending=>average: 2.2A@3.3V Under normal mode=>average: 1.09A@3.3V	Continuously sending=>average: 2.8A@3.3V Under normal mode=>average: 1.27A@3.3V	Continuously sending=>average: 1.5A@5V Under normal mode=>average: 0.9A@5V
Serial port baud rate	1200~500000bps (support non-standard baud rates)	1200~500000bps (support non-standard baud rates)	115200bps
Maximum connection	<32 (TCP/UDP)	<32 (TCP/UDP)	<32 (TCP/UDP)
Operating mode	Router/AP/STA/AP client/bridge mode	Router/AP/STA/AP client/bridge mode	Router/AP/STA/AP client/bridge mode
Security mechanism	Wireless MAC address filtering/wireless security function switch 64/128/152 bit WEP encryption WPA-PSK/WPA2-PSK, WPA/ WPA2 security mechanisms	WEP/WPA-PSK/WPA2-PSK 64/128/152 bit WEP encryption	WEP/WPA-PSK/WPA2-PSK 64/128/152 bit WEP encryption
Firmware update	Web page upgrade, command network port upgrade	Web page upgrade, command network port upgrade	Web page upgrade, command network port upgrade
Network protocol	IPv4, TCP/UDP	IPv4, TCP/UDP	IPv4, TCP/UDP
User configuration	Openwrt, Web page configuration	Openwrt, Web page configuration	Openwrt, Web page configuration
Power input voltage	3.0-3.6VDC (typical 3.3VDC)	3.0-3.6VDC (typical 3.3VDC)	3.3V
I/O voltage	3.0-3.6VDC (typical 3.3VDC)	3.0-3.6VDC (typical 3.3VDC)	1.8V
Power supply current	≥ 4A@3.3V	≥ 5A@3.3V	≥ 3.5A@5V
Power ripple	≤ 50mV	≤ 50mV	≤ 50mV
Operating environment	-20°C ~+60°C /10%~85% RH non condensing	-20°C ~+80°C /10%~85% RH non condensing	-20°C ~+80°C /10%~85% RH non condensing
Storage environment	-40°C ~+85°C /5%~90% RH non condensing	-40°C ~+85°C /5%~90% RH non condensing	-40°C ~+85°C /5%~90% RH non condensing
Antenna type	I-PEX first generation antenna pedestal * 4	I-PEX first generation antenna pedestal * 5	I-PEX first generation antenna pedestal * 4
Appearance size(mm)	60*90*2.8 (without heat sink)	60*90	60*90

BLE Bluetooth Module Series (BLE5.0/5.1)

Ultra small size, Low power consumption,
Master-slave integration

PRODUCT FEATURES

- Compliant with BLE bluetooth 5.0/5.1 standard
- Embedded 32-bit processor with 96/48MHz main frequency support
- Serial port baud rate up to 921600bps
- Master-slave bluetooth, can be set to master or slave mode
- Support custom broadcast data
- Wide operating voltage: typical 3.0/3.3V
- Based on BLE5.0/5.1, faster speed and longer transmission distance



TECHNICAL DATA

Product Model	HLK-B25	HLK-B26	HLK-B40	HLK-B50(BLE&SPP Dual Mode)
Bluetooth standard	Bluetooth V5.3 (LE mode) L2CAP, ATT, GAP, GATT, HID	Bluetooth V5.3 (LE mode) L2CAP, ATT, GAP, GATT, HID,MESH	Bluetooth V5.1 (LE mode) L2CAP, ATT, GAP, GATT, HID	BLE 5.0/SPP V1.2/HFP V1.8
Channel centre frequency range	2.412GHz~2.484GHz	2.412GHz~2.484GHz	2.412GHz~2.484GHz	2.412GHz~2.484GHz
Transmit power	-20~8dBm (adjustable)	-20~8dBm (adjustable)	-20~10dBm (adjustable)	-20~10dBm (adjustable)
Receiving sensitivity	-92dBm	-92dBm	-95dBm	-95dBm
Number of connections	Max: 1	Max: 1	Max: 20	BLE: 1/SPP: 1
Broadcast interval	50~2000ms	50~2000ms	50~2000ms	50~2000ms
Connection interval	7.5~4000ms	7.5~4000ms	7.5~4000ms	7.5~4000ms
Power requirements	1.8V~3.4V, typical 3.0V supply capacity>80 mA	1.8V~4.2V, typical 3.0V supply capacity>80 mA	1.8V~4.2V, typical 3.0V supply capacity>80 mA	1.8V~4.2V, typical 3.0V supply capacity>80 mA
IO outputs	MAX: 8mA (2.9~3.3V)	MAX: 8mA (2.9~3.3V)	MAX: 8mA (2.9~3.3V)	MAX: 8mA (2.9~3.3V)
Working current	Lower power consumption can be achieved by setting the corresponding parameters Enable hibernation: 550~570uA Disable hibernation: 3.8~5mA	Lower power consumption can be achieved by setting the corresponding parameters Enable hibernation: 50~80uA Disable hibernation: 3.8~5mA	Can be set for optimum performance Enable hibernation: 50~80uA Disable hibernation: 4~5mA	Average <8mA
Single power consumption	Bluetooth TX current (0dB): 8mA Bluetooth RX current: 9.7mA Average sleep current: 462uA	Bluetooth TX current (0dB): 5.7mA Bluetooth RX current: 5.5mA Average sleep current: 53uA	Bluetooth TX current (0dB): 8mA Bluetooth RX current: 9.7mA Average sleep current: 6.1uA	/
Serial port parameter	Baud rate 9600~921600bps	Baud rate 9600~921600bps	Baud rate 1200~921600bps	Baud rate 1200~921600bps
Firmware upgrade	Bluetooth OTA wireless upgrade	Bluetooth OTA wireless upgrade	Serial upgrade, bluetooth OTA wireless upgrade	Bluetooth OTA wireless upgrade
Encryption methods	/	Binding encryption, support PASSKEY ENTRY pairing	Binding encryption, support PASSKEY ENTRY pairing	Support PASKEY ENTRY mode pairing, 6-digit pincode
User configuration	AT command configuration	AT command configuration	Wireless/AT command configuration	Wireless configuration
Antenna type dimensions	PCB board mounted antenna	PCB board mounted antenna	High quality ceramic antenna	PCB board mounted antenna
Package	SMT	SMT	SMT	SMT
Working environment	-40°C ~+85°C /10%~90%RH non-condensing	-40°C ~+85°C /10%~90%RH non-condensing	-30°C ~+100°C /10%~90%RH non-condensing	-40°C ~+85°C /10%~90%RH non-condensing
Storage environment	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing
Appearance size(mm)	14*9.5*2	14*9.5*2	14*9.5*2	27*13*2

SENSOR MODULE SERIES

5.8G Radar Sensor Module Series

5.8G Radar, Ultra small size,
Ultra low power consumption motion sensing

PRODUCT FEATURES

- Based on doppler radar principle
- Integrated MCU, single chip direct output sensor control signal
- The product is positioned for motion sensing scene application
- With the ability of light-sensitive detection (optional/default unpasted sensor)
- Flexible and easy to use, flexible and adjustable functions, adjustable frequency, and long detection distance.
- Widely used in light remote sensing and light networking, moving target sensing, intelligent security monitoring, wireless sensor access control, etc.



HLK-LD012



HLK-LD016



HLK-LD020/LD021

TECHNICAL DATA

Product Model	HLK-LD016 (Adjustable Distance)	HLK-LD020	HLK-LD021	HLK-LD012
Frequency range	5.725GHz~5.875GHz	5.8GHz	5.8GHz	5.725GHz~5.875GHz
Transmit power	-5dBm	3dBm	3dBm	-5dBm
Input voltage	5V(4.5~5.5V)	5V~12V	5~12V	3.3V(2.7~4.8V)
Output high level	5V high level	3V	3.3V(3.2~3.4V)	3V
Output low	0V	0V	0V	0V
Working current	20mA	1.8mA(1.7~1.9mA)	70~80 uA	68~75uA
Hang high	NO	4~5m	4~5m	/
Sensing distance	6~10 m/Hanging height 3 m (adjustable)	Hanging height 4~5m (sensing radius) wall-mounted 10~12m (radial)	Hanging height 4~5m (sensing radius) wall-mounted 10~12m (radial)	Typical 8 meters / Maximum 10 meters
Delay time	15S(adjustable)	5S(adjustable)	5S(adjustable)	15S(adjustable)
Light sensitive threshold	10Lux(default not on/ adjustable)	Optional/default unpasted sensor	255Lux(default not on/ adjustable)	10Lux(adjustable)
Chip scheme	Domestic chip	Domestic chip	Domestic chip	Domestic chip
Hardware interface	VCC, GND, OUT, GPIO*2 etc	VCC, GND, OUT, CDS	VCC, GND, OUT, CDS	VCC, GND, OUT, GPIO*2 etc
Firmware upgrade	Nonsupport	Nonsupport	Nonsupport	Nonsupport
User configuration	Serial port configuration	Serial port configuration	High/Low / Serial Port	GPIO Adjustment Gear
Working environment	-30°C ~+80°C /10%~85%RH non-condensing	-20°C ~+70°C /10%~85%RH non-condensing	-20°C ~+70°C /10%~85%RH non-condensing	-30°C ~+80°C /10%~85%RH non-condensing
Storage environment	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /0%~90%RH non-condensing	-40°C ~+85°C /0%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing
Encapsulation form	Inserting pin	Inserting pin	Inserting pin	Inserting pin
Appearance size(mm)	20*20*12 (with 2.54*5P row of pins)	18*19*3	18*18*3	20*20*12 (with 2.54*5P row of pins)
Application scenario	Widely used in smart home, light remote sensing and intelligent light control, moving target sensing, intelligent security monitoring, wireless induction access control and so on	Smart lighting: home, office, lighting, pet supplies, etc	Smart lighting: home, office, lighting, pet supplies, etc	Detection of human presence or moving target sensing, suitable for low power consumption scenarios powered by batteries such as night lights, solar street lights and wireless cameras.

10G Radar Sensor Module Series

10G Radar, Ultra small size,
Ultra low power consumption motion sensing

PRODUCT FEATURES

- Operating frequency 10.525GHZ
- Based on doppler radar principle for motion sensing
- Ceiling/wall mounting, sensing angle: $110^{\circ} \pm 10^{\circ}$
- Enables detection of motion
- Sensing distance: radius 0.1~7m/2~6m



TECHNICAL DATA

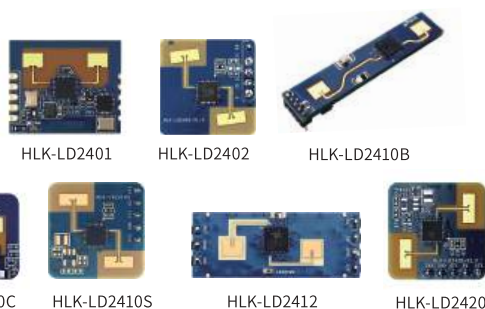
Product Model	HLK-LD101V	HLK-LD101L	HLK-LD1020 (Low Power Consumption)	HLK-LD102
Frequency	10.525GHz	10.525GHz	10.525GHz(10.40~10.60GHz)	10.525GHz
Working voltage	5V(3.3~12V)	5V(5~12V)	5V(3.3~12V)	3.3~12V
Working current	6mA (VCC=5V)	6mA (VCC=5V)	0.1~16mA (VCC=3.3~12V)	11mA (VCC=3.3~5V)
Sensing distance	2~6 m(adjustable)	2~7 m(adjustable)	2~8 metres (hanging height 3m)	0.1~0.2m (adjustable, close sweep) 1~2m (adjustable, proximity sensing)
Sensing angle	100°	120°	3dB beamwidth / $110^{\circ} \pm 10^{\circ}$ (ceiling mount)	$110^{\circ} \pm 10^{\circ}$
IO output level	3.3V	3.3V	3.3V	3.3V
Light sensing	/	/	/	/
Power-on stabilisation time	15S(10~25S)	15S(10~25S)	15S(13~17S)	15S(10~25S)
Delay time	5S(adjustable)	10S(adjustable)	5S	5S
Blocking time	1S(adjustable)	1S(adjustable)	2S	1S
Transmit power	2dBm	2dBm	2dBm	2dBm
User configuration	Serial port configuration sense distance shutdown delay	Serial port configuration sense distance shutdown delay	Resistor Configuration	Serial port configuration sense distance shutdown delay
Module package form	SMD / Pin	SMD / Pin	Pin	Pin
Air discharge	2kV	2kV	2kV	2kV
Operating environment	-20°C ~+60°C / 10%~85%RH non-condensing	-20°C ~+70°C / 10%~85%RH non-condensing	-20°C ~+70°C / 10%~85%RH non-condensing	-20°C ~+60°C / 10%~85%RH non-condensing
Storage environment	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing
Appearance size(mm)	20*25*4	18*20*4	15*15*2.4	40*7*3
Application scenario	Panel switch, smart home/ Application scenarios sensed by wall mounting method, with shielding, in line with Korean certification requirements	Panel switch, smart home/ Application scenarios sensed by wall mounting method, with shielding, in line with Korean certification requirements	Lighting fixtures market applications, with light sense, wall mounting methods, mainly in domestic, middle east, india cost-effective market	Local space lighting: such as cabinets, wardrobes, bookcases, wine cabinets, etc. Hotel, home panel switch, 86 control box, advertising machine lighting/proximity sensor, etc

24G Radar Sensor Module Series (Human presence sensing)

24G human presence sensor, multi-stage intelligent parameters adjustment

PRODUCT FEATURES

- 24GHz ISM frequency band
- The fastest detecting distance is 6m/8m/9m/10m
- Large detection angle is $\pm 60^\circ$
- Low power consumption human presence sensing
- Support ceiling mounting, wall mounting, etc.
- Plug and play, simple assembly method
- Multi-stage intelligent parameters adjustment, meeting the needs of changing scenarios



TECHNICAL DATA

Product Model	HLK-LD2401	HLK-LD2402	HLK-LD2410B/ LD2410C	HLK-LD2410S (Low power consumption)	HLK-LD2412	HLK-LD2420
Operating frequency	24GHz~ 24.25GHz	24GHz~ 24.25GHz	24GHz~ 24.25GHz	24GHz~ 24.25GHz	24GHz~ 24.25GHz	24GHz~ 24.25GHz
Power supply requirement	DC 3.3V/5V, power supply capacity > 200mA	DC 3.3V/5V, power supply capacity > 200mA	DC 5V, power supply capacity > 200mA	DC 3.3V, power supply capacity > 300mA	DC 3.3V/5V, power supply capacity > 200mA	DC 3.3V, power supply capacity > 300mA
Average operating current	74 mA	50 mA	80 mA	0.04~0.6mA	90 mA	50mA
Low power consumption	/	/	/	40~50uA	/	/
Modulation method	FMCW	FMCW	FMCW	FMCW	FMCW	FMCW
Connector	GPIO*1, UART*1, IO level 3.3V	GPIO*1, UART*1, IO level 3.3V	GPIO*1, UART*1, IO level 3.3V	GPIO*1, UART*1, IO level 3.3V	GPIO*1, UART*1, IO level 3.3V	GPIO*1, UART*1, IO level 3.3V
Detecting distance	0.2 ~ 6m (adjustable)	10m (adjustable)	0.75 ~ 6m (adjustable)	0.75 ~ 10m (adjustable)	0.75 ~ 9m (adjustable)	Movement 8m/Micro movement 6m (wall mounted); Movement 5m/Micro movement 4m (ceiling mounted)
Detecting angle	$\pm 60^\circ$	$\pm 60^\circ$	$\pm 60^\circ$	$\pm 60^\circ$	$\pm 60^\circ$	$\pm 60^\circ$
Distance resolution	0.75m/0.2m	0.7m	0.75m/0.2m	0.75m	0.75m/0.5m/0.2m	0.75m
Sweeping bandwidth	250MHz	250MHz	250MHz	250MHz	250MHz	250MHz
Target application	Human presence sensing	Stationary Human presence sensing	Human presence sensing	Human presence sensing	Human presence sensing	Human micro-motion / motion sensing
Data format	Serial HEX output / High and low level 3.3V&0V	Serial ASCII output	Serial HEX output / High and low level 3.3V&0V	Serial HEX output / High and low level 3.3V&0V	Serial HEX output / High and low level 3.3V&0V	Serial HEX output / High and low level 3.3V&0V
Operating temperature	-40°C ~+85°C / 10%~90%RH non-condensing	-40°C ~+85°C / 10%~90%RH non-condensing	-40°C ~+85°C / 10%~90%RH non-condensing	-40°C ~+85°C / 10%~90%RH non-condensing	-40°C ~+85°C / 10%~90%RH non-condensing	-40°C ~+85°C / 10%~90%RH non-condensing
Storage environment	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing
Appearance size(mm)	18*22	20*20	LD2410B: 7*35 LD2410C: 16*22	20*20	11*28	20*20
Application	Human body sensing lighting control, life safety protection, human body sensing wake-up of advertising screens and other equipment, smart home appliances, smart security, etc.	Smart home, smart business, smart lighting, smart security, etc.	Human body sensing lighting control, smart home appliances, smart security, etc.	Smart home, smart business, smart lighting, smart security, etc.	Human body sensing lighting control, life safety protection, human body sensing wake-up of advertising screens and other equipment, smart home appliances, smart security, etc.	Smart home, smart business, smart lighting, smart security, etc.

24G Radar Sensor Module Series

24G multi-level intelligent parameter adjustment

PRODUCT FEATURES

- 24GHz ISM frequency band
- The fastest detecting distance is 5m/6m/8m
- Large detection angle is $\pm 60^\circ$
- Integrate intelligent millimeter wave radar chip and intelligent algorithm firmware
- Support ceiling mounting, wall mounting, etc.
- Plug and play, simple assembly method
- Multi-stage intelligent parameters adjustment, meeting the needs of changing scenarios



技术参数 / TECHNICAL DATA

Product Model	HLK-LD2411/LD2411S (Smart toilet/distance detection)	HLK-LD2450 (Trajectory tracking)	HLK-LD2450A (Hand scanning / waving sensing)	HLK-LD2452 (Multi-target localization and tracking detection)	HLK-LD2461 (Multi-target state detection)
Operating frequency	24GHz~ 24.25GHz	24GHz~ 24.25GHz	24GHz~ 24.25GHz	24GHz~ 24.25GHz	24GHz~ 24.25GHz
Power supply requirement	DC 5V, power supply capacity > 200mA	DC 5V, power supply capacity > 200mA	DC 5V	DC 5V	DC 5V
Average operating current	80 mA	120mA	120mA	126mA	260mA
Modulation method	FMCW	FMCW	FMCW	FMCW	FMCW
Connector	GPIO*1, UART*1, IO level 3.3V	UART*1	UART*1	UART*2(One communication serial port, one burning serial port)	/
Detecting distance	0.75~6m (adjustable)	8m	Gesture recognition: 0.2m(0.03~0.3m)/Human body perception: 0.2~2m	8m	Static state:5m/Micro motion:6m/Motion:8m
Detecting angle	LD2411: $\pm 30^\circ$ LD2411S: $\pm 20^\circ$	$\pm 60^\circ$	$\pm 60^\circ$ (Azimuth) $\pm 35^\circ$ (Elevation)	$\pm 60^\circ$ (Azimuth) $\pm 30^\circ$ (Elevation)	$\pm 45^\circ$ (Horizontal angle) $\pm 25^\circ$ (Vertical angle)
Distance resolution	/	0.75m	0.75m	0.72m	0.75m
Sweeping bandwidth	250MHz	250MHz	250MHz	250MHz	250MHz
Target application	Gesture recognition, proximity / distance detection	Detection and tracking of up to three targets	Hand scanning / waving sensing	Multi-target localization and tracking detection	Human body movement trajectory sensing
Data format	LD2411: High and low level 3.3V&0V LD2411S: Serial HEX output / High and low level 3.3V&0V	Serial ASCII output	Serial ASCII output (256000/1/not)	Serial ASCII output	Serial ASCII output
Operating temperature	-40°C ~+85°C / 10%~85%RH non-condensing	-40°C ~+85°C / 10%~85%RH non-condensing	-40°C ~+85°C / 10%~85%RH non-condensing	-40°C ~+85°C / 10%~85%RH non-condensing	-40°C ~+85°C / 10%~85%RH non-condensing
Storage environment	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing	-40°C ~+85°C / 5%~90%RH non-condensing
Appearance size(mm)	27.5*27.5	15*44	15*44	23*42	50*35
Package	Default 1.27mm*5Pin female socket	With pin and socket interface	With pin and socket interface	Socket interface	Default 1.5mm*5Pin female socket (support customized)
Application	Smart home, smart business, smart lighting, smart security, etc.	Smart home, smart business, bathroom, smart security, etc	Can be widely used in indoor intelligent control scenarios such as homes, offices, hotels, etc.	Smart home, smart business, bathroom, smart security, etc	Can be used to detect the area location of human bodies, quantity statistics (within 5 people), trajectory detection, etc.

24G Radar Sensor Module Series

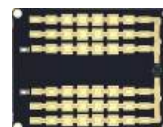
24G vehicle speed detection radar module

PRODUCT FEATURES

- Frequency band range: 24.125GHz/24GHz~ 24.25GHz
- Modulation mode: CW/FMCW detection of moving vehicles, detection distance $\geq 180/100$ meters
- Speed measurement range: 1~240km/h /0~120km/h
- Rear vehicle speed measurement / long distance speed sensor
- Dimension: 69*53*5mm/70*35mm



HLK-LD2451



HLK-LD2415H



TECHNICAL DATA

Product model	HLK-LD2415H (Vehicle speed detection)	HLK-LD2451 (Vehicle status detection)
Operating frequency	24.125GHz	24GHz~ 24.25GHz
Power supply requirement	9-24V, current $\leq 50\text{mA}@12\text{V}$	DC 5V, power supply capacity $> 200\text{mA}$
Average operating current	50mA	107mA
Modulation method	CW	FMCW
Connector	UART*1	GPIO*1, UART*1, IO level 3.3V
Detecting distance	$\geq 180\text{m}$	0~100m
Detecting angle	Horizontal 40°, Tilt 16°	Horizontal $\pm 15^\circ$, Vertical $\pm 7^\circ$
Measuring range	1~240km/h	0~120km/h
Target application	Outdoor vehicle target detection	Outdoor vehicle target detection
Data format	RS485/TTL serial port	Serial ASCII output, GPIO level output
Operating temperature	-20°C ~+85°C /10%~85%RH non-condensing	-40°C ~+85°C /10%~85%RH non-condensing
Storage environment	-40°C ~+125°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing
Appearance size(mm)	69*53*5	70*35
Package	Connector	Default 2.54mm*6Pin
Application	Expressway / Urban trunk road / City and county level highway / Urban and rural trunk road	Expressway intersection, non-motorized vehicle lane, motor vehicle lane

60G/79G Human Presence/Tracking Radar Sensor Module Series

Human movement trajectory sensing

PRODUCT FEATURES

- Operating frequency range 60GHz/79GHz
- Large detection angle, horizontal angle $\pm 50^\circ / \pm 60^\circ$, vertical angle $\pm 35^\circ / \pm 30^\circ$
- Operating voltage 5V
- Detection distance: 8m (Max)
- Working current 260 mA
- Detect the regional position of the human body, quantity statistics (within 5/8 persons), trajectory detection, etc



HLK-LD6001



HLK-LD7903A



HLK-LD6001A/B/C



TECHNICAL DATA

Product Model	HLK-LD6001(4T3R)	HLK-LD6001A(4T4R)	HLK-LD6001B(4T4R)	HLK-LD6001C(4T4R)	HLK-LD7903A
Operating frequency band	60GHz	60GHz-64GHz	60GHz-64GHz	60GHz-64GHz	79GHz
Operating voltage	5V	3.3V	3.3V	3.3V	5V
Operating current	220mA	110mA	110mA	110mA	≥ 115 mA
Transmitting power	12dBm	12dBm	12dBm	12dBm	12dBm
Number of Supporting tracks	8pp	10pp	10pp	/	2pp
Mounting type	Wall mounting	Top mounting	Top mounting	Top mounting	Top mounting
Detection range	8m (max)	0.5~8m (the effective projection ground is a circle with a radius of 3.5m, and the installation height is 2.7m)	0.5~8m (the effective projection ground is a circle with a radius of 3.5m, and the installation height is 2.7m)	0.5~8m (the effective projection ground is a circle with a radius of 3.5m, and the installation height is 2.7m)	3m
Detection angle	$\pm 60^\circ$ (antenna beam horizontal width) $\pm 30^\circ$ (antenna beam pitch width)	Azimuth and pitch angle coverage: $\pm 60^\circ$	Azimuth and pitch angle coverage: $\pm 60^\circ$	Azimuth and pitch angle coverage: $\pm 60^\circ$	3m*3m (top mounting)
Sweep bandwidth	4GHz	/	/	/	4GHz
Modulation mode	FMCW	FMCW	FMCW	FMCW	FMCW
Average power consumption	1.1W	0.3W	0.3W	0.3W	0.5W
Ranging accuracy	± 0.1 m	± 0.05 m	0.05m	0.05m	± 0.07 m
Resolution of ranging	0.1m	0.05m	0.05m	0.05m	0.07m
Angular accuracy	/	/	/	/	/
Angular resolution	Pitch angle 40° , azimuth angle 10°	/	/	/	Pitch angle 38° , azimuth angle 57°
Target application	Human orientation and trajectory tracking (less than 8 persons)	Multi-target human movement trajectory sensing (focus on trajectory)	Human movement trajectory sensing (focus on 3D presence)	Detecting the number of people entering and exiting	Human orientation and trajectory tracking (less than 2 persons)
Operating temperature	-15°C ~+70°C /10%~85%RH non-condensing	-15°C ~+70°C /10%~85%RH non-condensing	-15°C ~+70°C /10%~85%RH non-condensing	-15°C ~+70°C /10%~85%RH non-condensing	-40°C ~+85°C /10%~85%RH non-condensing
Storage environment	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing
Appearance size(mm)	60*30*4 (the default is 2.0mm*4Pin female connector)	29.36*28	29.36*28	30*28*2	25*20*3.7 (the default is 2.0mm*4Pin female connector)

60G Radar Sensor Module Series

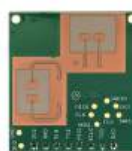
60G human heartbeat/3D human presence/
human fall detection

PRODUCT FEATURES

- Radar detection based on FMCW continuous wave signals
- Universal UART interface, provide communication protocol
- Reserve a variety of communication interfaces, support the secondary development of customers, suitable for multiple applications
- Compact size, only 25*23mm, support two types of pin and chip connection.
- Not affected by temperature, humidity, noise, airflow, dust, light, etc.



HLK-LD6005A



HLK-LD6002/B/C



HLK-LD6002H



TECHNICAL DATA

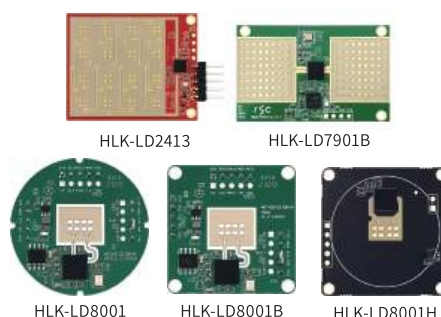
Product Model	HLK-LD6002 (Breathing Heartbeat)	HLK-LD6002B (3D Human Presence Sensor)	HLK-LD6002C (Human Fall Detection)	HLK-LD6002H (Vital signs detection)	HLK-LD6005A (Station occupancy detection)
Frequency	58GHz~62GHz	58GHz~62GHz	58GHz~62GHz	60 GHz	57GHz~64GHz
Working voltage	3.3V (3.1V~3.5V)	3.3V (3.1V~3.5V)	3.3V (3.1V~3.5V)	5V	3.3V (3.1V~3.5V)
Working current	600mA	600mA	600mA	150mA	45mA(600mA max)
Transmit power	12dBm	12dBm	12dBm	8dBm	10dBm
Antenna gain	4dBi	4dBi	4dBi	4dBi	4dBi
Detection angle	±60° (antenna beam horizontal width) ±60° (antenna beam pitch width)	±60° (antenna beam horizontal width) ±60° (antenna beam pitch width)	±60° (antenna beam horizontal width) ±60° (antenna beam pitch width)	Azimuth angle 60° / Pitch angle 60°	±50° (Horizontal Beam) ±30° (Vertical beam)
Detection distance	0.4m~1.5m(chest)	3m(motion / stationary / slight movement)	2m(fall)	0.8~1.5m (respiratory heartbeat / chest)	5m (hanging height) 0.4m (radius)
Measurement accuracy	90%	95%	90%(fall)	/	97%
Measurement range	Respiration :9~48bpm Heart rate :60~150bpm	/	/	/	/
Refresh time	50ms	/	/	/	/
Establishment of detection time	1Min	/	/	/	/
Maximum number of detectors	1	3	1	1	1
Modulation method	Serial host computer	Serial host computer	Serial host computer	Serial host computer	FMCW
Target application	Breathing and heartbeat detection	3D human presence sensor	Fall detection	Vital Signs Detection	Station Occupancy Detection
Operating temperature	-20°C~+85°C /10%~85%RH non-condensing	-20°C~+85°C /10%~85%RH non-condensing	-20°C~+85°C /10%~85%RH non-condensing	-40°C~+80°C /10%~85%RH non-condensing	-20°C~+65°C /10%~85%RH non-condensing
Storage temperature	-40°C~+85°C /5%~90%RH non-condensing	-40°C~+85°C /5%~90%RH non-condensing	-40°C~+85°C /5%~90%RH non-condensing	-40°C~+125°C /5%~90%RH non-condensing	-40°C~+85°C /5%~90%RH non-condensing
Appearance size(mm)	25*23	25*23	25*23	38*40	15*17
Application	Smart home, health management, smart health care	Smart home appliances, human body sensor, light smart home	Health care (toilet, bathroom), home security, whole house intelligence	Respiratory Heart Rate for Infants and Special Populations	Workstation occupancy detection applications, public restroom occupancy detection applications, various small angle requirement detection scenarios

24G/79G Radar Sensor Module Series

24G/79G high frequency water level/liquid level measurement Millimeter accuracy

PRODUCT FEATURES

- 24G/79G millimeter wave high band radar
- Radar detection based on FMCW signal
- Measuring distance up to 15m
- Operating voltage 3.3V
- Can reach millimeter ranging accuracy, error $\pm 5\text{mm}$
- Transmit power 12dBm
- Non-contact continuous level measurement radar



TECHNICAL DATA

Product Model	HLK-LD7901B	HLK-LD8001/B	HLK-LD8001H	HLK-LD2413
Operating frequency band	79GHz~81GHz	79GHz~81GHz	79GHz~81GHz	23GHz~27GHz
Operating voltage	3.3V	3.3V	3.7V(3.5~5V)	3.3V
Operating current	4mA(changes with update rate)	135mA(max:600mA)	30mA	16mA@1s reporting period (max: 740mA) 23mA@160ms reporting period (max: 705mA)
Transmitting power	12dBm	12dBm	13dBm	11dBm
Antenna gain	7dBi	10dBi	/	/
EIRP parameters	19dBm	12dBm	/	/
Detection angle	8° (horizontal)/7° (vertical)	$\pm 50^\circ$ (horizontal beam) $\pm 40^\circ$ (vertical beam)	$\pm 25^\circ$ (horizontal/vertical)	$\pm 12^\circ$ (horizontal/vertical)
Maximum range	0.15m~15m	15m	0.15~40m	0.15~10m
Ranging accuracy	1mm(theoretical accuracy)	$\pm 5\text{mm}$	$\pm 5\text{mm}$	$\pm 3\text{mm}$
Unmeasurable area	14cm	14cm	/	/
Response time	160ms	200ms	100ms	160ms
Acquisition update rate	10Hz(configurable)	5Hz	/	/
Average power consumption	0.011W (dependent on sampling period)	0.396W	/	/
Interface	UART	UART	UART((ASCII/Modbus)	UART
Modulation mode	FMCW	FMCW	FMCW	FMCW
Target application	High frequency water level sensing	Liquid level measurement	Liquid level measurement	Water level measurement in hydrological monitoring, urban water supply pipelines and fire-fighting water tanks scenarios
Operating temperature	-15°C ~+70°C /10%~85%RH non-condensing	-20°C ~+85°C /10%~90%RH non-condensing	-20°C ~+85°C /10%~85%RH non-condensing	-40°C ~+85°C /10%~85%RH non-condensing
Storage environment	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing	-40°C ~+85°C /5%~90%RH non-condensing
Appearance size(mm)	31*51*2	LD8001:R=19.5 LD8001B:35.3*35.3	35*35	44*36

Fingerprint Recognition Module Series

Small size /RGB tri-color light/Support fingerprint stitching
Local collection /storage and recognition integrate

PRODUCT FEATURES

- Capacitive touch sensor/Integrated semiconductor fingerprint processing module
- Power supply 3.3V
- Support the storage of 50/100 pcs fingerprints
- Small size, low power consumption, fast recognition speed, high recognition accuracy
- UART interface



TECHNICAL DATA

Product model	HLK-ZW0301	HLK-ZW0608	HLK-ZW0623	HLK-ZW0642	HLK-ZW0901	HLK-ZW0905	HLK-ZW0906	HLK-ZW0919
Chip scheme	Domestic chip	Domestic chip	Domestic chip	Domestic chip	Domestic chip	Domestic chip	Domestic chip	Domestic chip
Sensor type	Capacitive touch-type fingerprint sensor	Semiconductor capacitive fingerprint sensor	Capacitive touch-type fingerprint sensor	Capacitive touch-type fingerprint sensor	Capacitive touch-type fingerprint sensor	Capacitive touch-type fingerprint sensor	Capacitive touch-type fingerprint sensor	Capacitive touch-type fingerprint sensor
Pixel	112*88	160*160	160*160	160*160	112*96	112*96	112*96	112*96
Resolution ratio	508DPI	508DPI	508DPI	508DPI	508DPI	508DPI	508DPI	508DPI
Response time	Image feature extraction time < 140ms; Single image feature matching < 400ms	Image feature extraction time < 250ms; Single image feature matching < 10ms	Image feature extraction time < 250ms; Single image feature matching < 20ms	Image feature extraction time < 250ms; Single image feature matching < 10ms	Image feature extraction time < 60ms; Single image feature matching < 250ms	Image feature extraction time < 60ms; Single image feature matching < 250ms	Image feature extraction time < 60ms; Single image feature matching < 250ms	Image feature extraction time < 60ms; Single image feature matching < 250ms
Capacity	50pcs	100pcs	100pcs	100pcs	50pcs	50pcs	100pcs	100pcs
Algorithm accuracy	FRR.<3%, FAR. < 1/10000	FRR.<1%, FAR. < 1/1000	FRR.<3%, FAR. < 1/1000	FRR.<1%, FAR. < 1/1000	FRR.<3%, FAR. < 1/1000	FRR.<3%, FAR. < 1/1000	FRR.<3%, FAR. < 1/1000	FRR.<3%, FAR. < 1/1000
Working voltage	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V
Working current	~12mA	<48mA	<45mA	<50mA	<40mA	<50mA	<25mA	<50mA
Static power consumption	10uA	10uA	12uA	12uA	12uA	12uA	11uA	12uA
Electrostatic protection	±15KV	±15KV	±15KV	±15KV	±15KV	±15KV	±15KV	±15KV
Working environment	-20°C ~+70°C / 40%~85%RH non-condensing	-25°C ~+85°C / 45%~85%RH non-condensing	-30°C ~+70°C / 40%~85%RH non-condensing	-20°C ~+70°C / 40%~85%RH non-condensing	-30°C ~+70°C / 45%~85%RH non-condensing	-25°C ~+70°C / 40%~85%RH non-condensing	-25°C ~+70°C / 40%~85%RH non-condensing	-25°C ~+70°C / 40%~85%RH non-condensing
Storage environment	-40°C ~+85°C / <85%RH non-condensing	-40°C ~+85°C / 45%~95%RH non-condensing	-40°C ~+85°C / 45%~95%RH non-condensing	-40°C ~+85°C / 45%~95%RH non-condensing	-40°C ~+85°C / 45%~95%RH non-condensing	-40°C ~+85°C / 45%~95%RH non-condensing	-40°C ~+85°C / 45%~95%RH non-condensing	-40°C ~+85°C / 45%~95%RH non-condensing
Interface	Support UART	Support UART	Support UART	Support UART	Support UART	Support UART	Support UART	Support UART
Connector	XH-1.00-6P	XH-1.00-6P	XH-1.00-6P	XH-1.00-6P	XH-1.00-6P	XH-1.00-6P	XH-1.00-6P	XH-1.00-6P
Serial port baud rate	57600bps	57600 bps	57600bps	57600bps	57600 bps	57600bps	57600bps	57600 bps
Shape of the sensor	Circular	Square-shaped	Circular	Racket-shaped	Circular	Circular	Circular	Racket-shaped
Appearance size(mm)	Φ12.8	19*19	Φ21	Φ18	Φ21	Φ12.8	Φ21	Φ18
Service life	> 1 million times	> 1 million times	> 1 million times	> 1 million times	> 1 million times	> 1 million times	> 1 million times	> 1 million times
Does it support 360° recognition function	Support	Support	Support	Support	Support	Support	Support	Support
Application	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.

Fingerprint Recognition Module Series

Compact size /Low power consumption
Capacitive/semiconductor fingerprint sensor

PRODUCT FEATURES

- Capacitive/semiconductor fingerprint sensor
- The fingerprint module supports 3.4V - 6V power supply
- ESD protection level > 15KV
- Supports storage of 50/100 fingerprint features
- Compact size, low power consumption, fast recognition speed, high recognition accuracy
- 1.0mm connector, supports reliable connection
- UART interface



TECHNICAL DATA

Product model	HLK-ZW101	HLK-ZW111	HLK-ZW121
Chip scheme	Domestic chip	Domestic chip	Domestic chip
Sensor type	Capacitive fingerprint sensor	Semiconductor fingerprint sensor	Semiconductor fingerprint sensor
Pixel	80*64	88*112	160*160
Resolution ratio	500DPI	508DPI	508DPI
Chip packaging	Φ11.6mm *0.6mm	Φ12.8mm *0.6mm	Φ15mm *0.65mm
Module packaging	Φ21mm*5.0 mm	Φ21mm*5.0 mm	Φ21mm*6.2mm
Response time	mage feature extraction time < 60ms Single image feature matching < 800ms	mage feature extraction time < 60ms Single image feature matching < 800ms	mage feature extraction time<30ms Single image feature matching<600ms
Capacity	50pcs	100pcs	100pcs
Algorithm accuracy	FRR.<3%, FAR. < 1/10000	FRR.<3%, FAR. < 1/10000	FRR.<0.1%, FAR. < 1/1000
Working voltage	3.3V(2.2V~3.6V)	3.3V(2.2V~3.6V)	3.3V(2.2V~3.6V)
Working current	40mA(35mA~45mA)	40mA(35mA~45mA)	40mA(35mA~45mA)
Static power consumption	10uA(8uA~12uA)	10uA(8uA~12uA)	10uA(8uA~12uA)
Electrostatic protection	±15KV	±15KV	±15KV
Working environment	-20°C ~+70°C /40%~85%RH non-condensing	-20°C ~+70°C /40%~85%RH non-condensing	-20°C ~+70°C /40%~85%RH non-condensing
Storage environment	-40°C ~+85°C /<85%RH non-condensing	-40°C ~+85°C /<85%RH non-condensing	-40°C ~+85°C /<85%RH non-condensing
Interface	Support UART	Support UART	Support UART
Connector	XH-1.00-6P	XH-1.00-6P	XH-1.00-6P
Serial port baud rate	57600bps	57600 bps	57600bps
Shape of the sensor	Circular	Circular	Circular
Dimension (mm)	Φ21.00	Φ21.00	Φ21.00
Service life	> 1 million times	> 1 million times	> 1 million times
Does it support 360° recognition function	Support	Support	Support
Application	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.

Fingerprint Recognition Module Series

Compact size /Low power consumption
Pressure-type fingerprint recognition

PRODUCT FEATURES

- Pressure-type fingerprint recognition
- Resolution: 508 DPI
- The power consumption of the SENSOR finger sensing area detection is 10uA @ 6Hz
- High-speed SPI communication interface
- Compact size, low power consumption, fast recognition speed, high recognition accuracy
- Support for Coatings thinner than 30um
- Built-in RGB three-color LED lights (Red light is temporarily not supported for display)



HLK-ZW20/ZW3020



HLK-ZW3021



TECHNICAL DATA

Product model	HLK-ZW20	HLK-ZW3020	HLK-ZW3021
Chip scheme	Domestic chip	Domestic chip	Domestic chip
Sensor type	Press fingerprint recognition	Touch fingerprint recognition	Press fingerprint recognition
Pixel	108*108	108*108	108*108
Resolution ratio	508DPI	508DPI	508DPI
Response time	Image feature extraction time < 1s Single image feature matching < 250ms	Image feature extraction time<250ms Single image feature matching<150ms	Image feature extraction time<250ms Single image feature matching<450ms
Capacity	100 pcs	100 pcs	100 pcs
Algorithm accuracy	FRR.<5%, FAR. < 1/10000	FRR.<3%, FAR. < 1/10000	FRR.<5%, FAR. < 1/10000
Working voltage	3.3V	3.3V	3.3V
Working current	0.2uA	< 60mA	45mA
Static power consumption	10uA	10uA	6uA
Electrostatic protection	±15KV	±15KV	±15KV
Working environment	-40°C ~+85°C /40%~85%RH non-condensing	-25°C ~+70°C /40%~85%RH non-condensing	-25°C ~+70°C /40%~85%RH non-condensing
Storage environment	-40°C ~+125°C /45%~95%RH non-condensing	-40°C ~+85°C / < 85%RH non-condensing	-40°C ~+85°C / < 85%RH non-condensing
Interface	Standard UART	UART(TTL level)	UART(TTL level)
Connector	XH-1.00-6P	XH-1.00-6P	XH-1.00-6P
Serial port baud rate	57600bps	57600bps	57600bps
Shape of the sensor	Circular	Circular	Square-shaped
Appearance size(mm)	Φ21.00	Φ21.00	18.6*18.6
Service life	> 1 million times	> 1 million times	> 1 million times
Does it support 360° recognition function	Support	Support	Support
Application	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.	Widely applied in smart home, smart door locks, attendance and access control systems, security storage, financial fields, etc.

AC-DC POWER CONVERTER MODULE SERIES

2W&3W&5W Power Converter Module

Output short circuit and over current protection

PRODUCT FEATURES

- Wide range input: 85-265VAC/120-350VDC
- Working temperature: -25°C ~+60°C
- Input and output isolation, isolation voltage 3000VAC
- Fully enclosed plastic shell, meets the requirements of UL94-V0
- Excellent output short circuit and over-current protection, self recovery
- Passed CE and RoHS certifications, meet the requirements of UL/EMC safety testing



2W MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-2M03	2W	90-245VAC (120-350VDC)	3.3V/600mA	≤ 50mV	69
HLK-2M05			5V/400mA		
HLK-2M09			9V/230mA	≤ 70mV	
HLK-2M12			12V/170mA		
HLK-2M15			15V/130mA		
HLK-2M24			24V/83mA		
Appearance size: L×W×H 30.5*16.5*19mm					

LS03 MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency % (Typ)
HLK-3LS03	3W	85-305VAC (120-430VDC)	3.3V/600mA	≤ 150mV	67
HLK-3LS05			5V/600mA	≤ 170mV	72
HLK-3LS09			9V/333mA	≤ 50mV	76
HLK-3LS12			12V/250mA	≤ 100mV	77
HLK-3LS15			15V/200mA	≤ 150mV	78
HLK-3LS24			24V/125mA	≤ 100mV	80
Appearance size: L×W×H 26.4*17.5*10mm					

3W&3W-B MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HfLink-PM03	3W	85-265VAC (120-375VDC)	3.3V/1000mA	≤ 50mV	72
HfLink-PM01			5V/600mA		73
HfLink-PM09			9V/330mA	≤ 70mV	
HfLink-PM12			12V/250mA		
HfLink-PM15			15V/200mA		
HfLink-PM24			24V/125mA		
HfLink-3M03B	3W	85-265VAC (120-375VDC)	3.3V/1000mA	≤ 100mV	70
HfLink-3M05B			5V/600mA	≤ 50mV	72
HfLink-3M09B			9V/330mA	≤ 50mV	75
HfLink-3M12B			12V/250mA	≤ 100mV	77
HfLink-3M15B			15V/200mA		79
HfLink-3M24B			24V/125mA		80
Appearance size: L×W×H 34.8*20.5*15mm					

3W-C MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency % (Typ)
HfLink-3M03C	3W	85-265VAC (120-375VDC)	3.3V/1000mA	≤ 50mV	70
HfLink-3M05C			5V/600mA		73
HfLink-3M09C			9V/330mA	≤ 70mV	78
HfLink-3M12C			12V/250mA		80
HfLink-3M15C			15V/200mA		
HfLink-3M24C			24V/125mA		82
Appearance size: L×W×H 39*23.5*18mm					

LD03 MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-3LD05	3W	90-305VAC (120-430VDC)	5V/600mA	≤ 100mV	75
HLK-3LD09			9V/330mA		78
HLK-3LD12			12V/250mA		
HLK-3LD15			15V/200mA		
HLK-3LD24			24V/125mA		75
Appearance size: L×W×H 25.4*25.4*19mm					

LS05 MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-5LS03	5W	90-265VAC (120-375VDC)	3.3V/1000mA	≤ 150mV	75
HLK-5LS05			5V/1000mA	≤ 170mV	77
HLK-5LS09			9V/560mA	≤ 50mV	78
HLK-5LS12			12V/420mA	≤ 100mV	
HLK-5LS15			15V/333mA	≤ 150mV	
HLK-5LS24			24V/208mA	≤ 100mV	82
Appearance size: L×W×H 26.4*17.5*10mm					

5W&5W-B MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-5M03	5W	85-265VAC (120-375VDC)	3.3V/1500mA	≤ 50mV	75
HLK-5M05			5V/1000mA	≤ 50mV	
HLK-5M09			9V/560mA	≤ 70mV	
HLK-5M12			12V/450mA		
HLK-5M15			15V/330mA		
HLK-5M24			24V/208mA		
HLK-5M03B	5W	85-265VAC (120-375VDC)	3.3V/1500mA	≤ 110mV	72
HLK-5M05B			5V/1000mA	≤ 100mV	77
HLK-5M09B			9V/560mA		78
HLK-5M12B			12V/420mA		
HLK-5M15B			15V/333mA		80
HLK-5M24B			24V/208mA	82	
Appearance size: L×W×H 39*23.5*18mm					

LD05 MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-5LD05	5W	90-305VAC (120-430VDC)	5V/1000mA	≤ 100mV	73
HLK-5LD09			9V/560mA		78
HLK-5LD12			12V/420mA		80
HLK-5LD15			15V/333mA		
HLK-5LD24			24V/210mA		75
Appearance size: L×W×H 25.4*25.4*19mm					

*The above is only parts of standard models. If you need other models, please contact our sales team.

10W&15W Power Converter Module

Output short circuit and over current protection

PRODUCT FEATURES

- Wide range input: 85-265VAC/120-350VDC
- Working temperature: -25°C ~+60°C
- Input and output isolation, isolation voltage 3000VAC
- Excellent output short circuit and over-current protection, self recovery
- Fully enclosed plastic shell, meets the requirements of UL94-V0
- High quality waterproof thermal conductive adhesive filling, dust-proof, moisture-proof and vibration proof, reaching IP65 standard
- Passed CE and RoHS certifications,
- Meets the requirements of UL/EMC safety testing



10W-T MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-10M03T	10W	85-265VAC (120-375VDC)	3.3V/3000mA	≤ 110mV	78
HLK-10M05T			5V/2000mA	≤ 100mV	82
HLK-10M09T			9V/1100mA		83
HLK-10M12T			12V/830mA		
HLK-10M15T			15V/660mA		
HLK-10M24T			24V/420mA		
Appearance size: L×W×H 39*23.5*18mm					

LS10 MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-10LS03	10W	90-265VAC (120-375VDC)	3.3V/2000mA	≤ 150mV	70
HLK-10LS05			5V/2000mA	≤ 170mV	77
HLK-10LS09			9V/1100mA	≤ 50mV	80
HLK-10LS12			12V/830mA	≤ 100mV	83
HLK-10LS15			15V/670mA	≤ 150mV	
HLK-10LS24			24V/420mA	≤ 100mV	
Appearance size: L×W×H 26.4*17.5*10mm					

10W&10W-B MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-10M03	10W	85-265VAC (120-375VDC)	3.3V/3000mA	≤ 100mV	75
HLK-10M05			5V/2000mA		
HLK-10M09			9V/1100mA	≤ 120mV	80
HLK-10M12			12V/830mA		
HLK-10M15			15V/660mA	≤ 150mV	
HLK-10M24			24V/420mA		
HLK-10M03B	10W	85-265VAC (120-375VDC)	3.3V/3000mA	≤ 100mV	
HLK-10M05B			5V/2000mA	≤ 100mV	85
HLK-10M09B			9V/1100mA	≤ 120mV	84
HLK-10M12B			12V/830mA	≤ 120mV	83
HLK-10M15B			15V/660mA	≤ 100mV	84
HLK-10M24B			24V/420mA	≤ 150mV	85
Appearance size: L×W×H 47.5*28.5*22mm					

15W-T MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-15M03T	15W	90-265VAC (120-375VDC)	3.3V/3000mA	≤ 50mV	79
HLK-15M05T			5V/3000mA		81
HLK-15M09T			9V/1670mA	≤ 100mV	83
HLK-15M12T			12V/1250mA		84
HLK-15M15T			15V/1000mA		
HLK-15M24T			24V/625mA		
Appearance size: L×W×H 41.6*25.5*19mm					

15W-C MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-15M05C	15W	85-265VAC (120-375VDC)	5V/3000mA	≤ 100mV	83
HLK-15M09C			9V/1660mA	≤ 120mV	
HLK-15M12C			12V/1250mA		
HLK-15M15C			15V/1000mA		
HLK-15M24C			24V/625mA	≤ 150mV	
Appearance size: L×W×H 47.5*28.5*22mm					

*The above is only parts of standard models. If you need other models, please contact our sales team.

20W&30W&40W&50W&60W Power Converter Module

Output short circuit and over current protection

PRODUCT FEATURES

- Wide range input: 85-265VAC/120-350VDC
- Working temperature: -25°C ~ +60°C
- Input and output isolation, isolation voltage 3000VAC
- Excellent output short circuit and over-current protection, self recovery
- Fully enclosed plastic shell, meets the requirements of UL94-V0
- High quality waterproof thermal conductive adhesive filling, dust-proof, moisture-proof and vibration proof, reaching IP65 standard
- Passed CE and RoHS certifications, Meets the requirements of UL/EMC safety testing



20W&20W-B MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-20M05	20W	85-265VAC (120-375VDC)	5V/4000mA	≤ 100mV	80
HLK-20M09			9V/2200mA	≤ 150mV	
HLK-20M12			12V/1666mA		82
HLK-20M15			15V/1300mA		
HLK-20M24			24V/833mA	≤ 220mV	84
HLK-20M05B	20W	85-265VAC (120-375VDC)	5V/4000mA	≤ 100mV	83
HLK-20M09B			9V/2200mA		
HLK-20M12B			12V/1660mA		85
HLK-20M15B			15V/1330mA		
HLK-20M24B			24V/830mA		
Appearance size: L×W×H 57.5*33.5*23.8mm					

LD20 MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-20LD05	20W	90-305VAC (120-430VDC)	5V/3600mA	≤ 100mV	78
HLK-20LD09			9V/2230mA		79
HLK-20LD12			12V/1660mA		82
HLK-20LD15			15V/1330mA		83
HLK-20LD24			24V/833mA		83
Appearance size: L×W×H 52.4*27.2*24.0mm					

24W-Z MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-22M05Z	22W	90-264VAC	5V/4500mA	≤ 120mV	85
HLK-22M12Z	24W		12V/2000mA		
HLK-22M24Z			24V/1000mA		
Appearance size: L×W×H 70 *45*22.6mm					

30W&30W-B/C MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-30M09	30W	85-265VAC (120-375VDC)	9V/3333mA	≤ 100mV	91
HLK-30M12			12V/2500mA	≤ 150mV	
HLK-30M15			15V/2000mA		
HLK-30M24			24V/1250mA		
HLK-30M12B	30W	85-265VAC (120-375VDC)	12V/2500mA	≤ 100mV	88
HLK-30M15B			15V/2000mA		89
HLK-30M24B			24V/1250mA		90
HLK-30M05C	30W	85-265VAC (120-375VDC)	5V/6000mA	≤ 100mV	85
HLK-30M09C			9V/3333mA		88
HLK-30M12C			12V/2500mA	≤ 150mV	
HLK-30M15C			15V/2000mA		
HLK-30M24C			24V/1250mA		
Appearance size: L×W×H 57.5*33.5*23.8mm					

30W-Z MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-30M05Z	30W	90-264VAC	5V/6000mA	≤ 120mV	87
HLK-30M12Z			12V/2500mA		
HLK-30M24Z			24V/1250mA		
Appearance size: L×W×H 70 *45*22.6mm					

40W MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-40M09	40W	85-265VAC (120-375VDC)	9V/4400mA	≤ 120mV	91
HLK-40M12			12V/3300mA		
HLK-40M15			15V/2600mA		
HLK-40M24			24V/1600mA		
Appearance size: L×W×H 57.5*33.5*23.8mm					

*The above is only parts of standard models. If you need other models, please contact our sales team.

50W-C MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-50M05C	45W	85-265VAC (120-375VDC)	5V/9000mA	≤ 100mV	87
HLK-50M09C	50W		9V/5500mA		90
HLK-50M12C			12V/4200mA		91
HLK-50M15C			15V/3300mA		
HLK-50M18C			18V/2750mA		
HLK-50M20C			20V/2500mA		
HLK-50M24C			24V/2100mA		
Appearance size: L×W×H 57.5*33.5*23.8mm					

60W-C MODEL SELECTION

Model	Power	Input voltage (Vo/Io)	Output voltage / current	Ripple noise (mVp-p)	Efficiency %(Typ)
HLK-60M09C	60W	85-265VAC (120-375VDC)	9V/6600mA	≤ 100mV	88
HLK-60M12C			12V/5000mA		91
HLK-60M15C			15V/4000mA		
HLK-60M18C			18V/3300mA		
HLK-60M20C			20V/3000mA		
HLK-60M24C			24V/2500mA		
Appearance size: L×W×H 57.5*33.5*23.8mm					

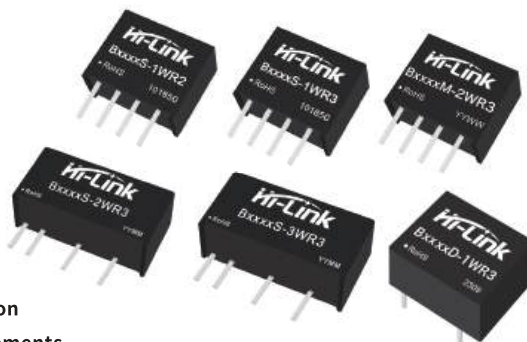
DC-DC POWER CONVERTER MODULE SERIES

B_S/B_D/B_M Series(1-3W)

Rated voltage input, Isolated non-stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Rated voltage input, isolated non-stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Sustainable short-circuit protection, automatic recovery
- Input and output safety isolation, isolation voltage 1500VDC
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



B_S-1WR2 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency %(Typ)	Isolation voltage
B0303S-1WR2	1W	3.3V (2.97V-3.63V)	3.3V/303mA	68	1500VDC (SIP)
B0305S-1WR2			5V/200mA	72	
B0312S-1WR2			12V/84mA	76	
B0503S-1WR2	1W	5V (4.5V-5.5V)	3.3V/303mA	76	1500VDC (SIP)
B0505S-1WR2			5V/200mA		
B0509S-1WR2			9V/111mA		
B0512S-1WR2			12V/84mA		
B0515S-1WR2			15V/67mA		
B0524S-1WR2			24V/42mA		
B1203S-1WR2	1W	12V (10.8V-13.2V)	3.3V/303mA	68	1500VDC (SIP)
B1205S-1WR2			5V/200mA	76	
B1209S-1WR2			9V/111mA		
B1212S-1WR2			12V/84mA		
B1215S-1WR2			15V/67mA		
B1224S-1WR2			24V/42mA		
B1503S-1WR2	1W	15V (13.5V-16.5V)	3.3V/303mA	68	1500VDC (SIP)
B1505S-1WR2			5V/200mA	76	
B1509S-1WR2			9V/111mA		
B1512S-1WR2			12V/84mA		
B1515S-1WR2			15V/67mA		
B1524S-1WR2			24V/42mA		
B2403S-1WR2	1W	24V (21.6V-26.4V)	3.3V/303mA	68	1500VDC (SIP)
B2405S-1WR2			5V/200mA	76	
B2409S-1WR2			9V/111mA		
B2412S-1WR2			12V/84mA		
B2415S-1WR2			15V/67mA		
B2424S-1WR2			24V/42mA		
Appearance size: L×W×H 11.5*6*10mm					

B_S-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
B0303S-1WR3	1W	3.3V (2.97V-3.63V)	3.3V/303mA	78	1500VDC (SIP)
B0305S-1WR3			5V/200mA	79	
B0309S-1WR3			9V/111mA		
B0312S-1WR3			12V/84mA	80	
B0315S-1WR3			15V/67mA		
B0324S-1WR3			24V/42mA	81	
B0503S-1WR3	1W	5V (4.5V-5.5V)	3.3V/303mA	80	1500VDC (SIP)
B0505S-1WR3			5V/200mA	85	
B0509S-1WR3			9V/111mA	80	
B0512S-1WR3			12V/84mA		
B0515S-1WR3			15V/67mA		
B0524S-1WR3			24V/42mA	81	
B1203S-1WR3	1W	12V (10.8V-13.2V)	3.3V/303mA	81	1500VDC (SIP)
B1205S-1WR3			5V/200mA	86	
B1209S-1WR3			9V/111mA	87	
B1212S-1WR3			12V/84mA	88	
B1215S-1WR3			15V/67mA		
B1224S-1WR3			24V/42mA		
B1503S-1WR3	1W	15V (13.5V-16.5V)	3.3V/303mA	81	1500VDC (SIP)
B1505S-1WR3			5V/200mA	86	
B1509S-1WR3			9V/111mA	87	
B1512S-1WR3			12V/84mA	88	
B1515S-1WR3			15V/67mA		
B1524S-1WR3			24V/42mA		
B2403S-1WR3	1W	24V (21.6V-26.4V)	3.3V/303mA	81	1500VDC (SIP)
B2405S-1WR3			5V/200mA	86	
B2409S-1WR3			9V/111mA	87	
B2412S-1WR3			12V/84mA	88	
B2415S-1WR3			15V/67mA		
B2424S-1WR3			24V/42mA		
Appearance size: L×W×H 11.5*6*10mm					

B_S-2WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency %(Typ)	Isolation voltage
B0503S-2WR3	2W	5V (4.5V-5.5V)	3.3V/606mA	80	1500VDC (SIP)
B0505S-2WR3			5V/400mA	85	
B0509S-2WR3			9V/222mA	86	
B0512S-2WR3			12V/166mA	87	
B0515S-2WR3			15V/133mA		
B0524S-2WR3			24V/83mA		
B0903S-2WR3	2W	9V (8.1V-9.9V)	3.3V/606mA	80	1500VDC (SIP)
B0905S-2WR3			5V/400mA	85	
B0909S-2WR3			9V/222mA	86	
B0912S-2WR3			12V/166mA	87	
B0915S-2WR3			15V/133mA		
B0924S-2WR3			24V/83mA		
B1203S-2WR3	2W	12V (10.8V-13.2V)	3.3V/606mA	81	1500VDC (SIP)
B1205S-2WR3			5V/400mA	86	
B1209S-2WR3			9V/222mA	87	
B1212S-2WR3			12V/166mA	88	
B1215S-2WR3			15V/133mA		
B1224S-2WR3			24V/83mA		
B1503S-2WR3	2W	15V (13.5V-16.5V)	3.3V/606mA	81	1500VDC (SIP)
B1505S-2WR3			5V/400mA	86	
B1509S-2WR3			9V/222mA	87	
B1512S-2WR3			12V/166mA	88	
B1515S-2WR3			15V/133mA		
B1524S-2WR3			24V/83mA		
B2403S-2WR3	2W	24V (21.6V-26.4V)	3.3V/606mA	81	1500VDC (SIP)
B2405S-2WR3			5V/400mA	86	
B2409S-2WR3			9V/222mA	87	
B2412S-2WR3			12V/166mA	88	
B2415S-2WR3			15V/133mA	88	
B2424S-2WR3			24V/83mA		
Appearance size: L×W×H 19.5*7*10mm					

B_S-3WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency %(Typ)	Isolation voltage
B0503S-3WR3	3W	5V (4.5V-5.5V)	3.3V/909mA	78	1500VDC (SIP)
B0505S-3WR3			5V/600mA	82	
B0509S-3WR3			9V/333mA	84	
B0512S-3WR3			12V/250mA		
B0515S-3WR3			15V/200mA		
B0524S-3WR3			24V/125mA		
B0903S-3WR3	3W	9V (8.1V-9.9V)	3.3V/909mA	78	1500VDC (SIP)
B0905S-3WR3			5V/600mA	82	
B0909S-3WR3			9V/333mA	84	
B0912S-3WR3			12V/250mA		
B0915S-3WR3			15V/200mA		
B0924S-3WR3			24V/125mA		
B1203S-3WR3	3W	12V (10.8V-13.2V)	3.3V/909mA	78	1500VDC (SIP)
B1205S-3WR3			5V/600mA	82	
B1209S-3WR3			9V/333mA	84	
B1212S-3WR3			12V/250mA		
B1215S-3WR3			15V/200mA		
B1224S-3WR3			24V/125mA		
B1503S-3WR3	3W	15V (13.5V-16.5V)	3.3V/909mA	78	1500VDC (SIP)
B1505S-3WR3			5V/600mA	82	
B1509S-3WR3			9V/333mA	84	
B1512S-3WR3			12V/250mA		
B1515S-3WR3			15V/200mA		
B1524S-3WR3			24V/125mA		
B2403S-3WR3	3W	24V (21.6V-26.4V)	3.3V/909mA	78	1500VDC (SIP)
B2405S-3WR3			5V/600mA	82	
B2409S-3WR3			9V/333mA	84	
B2412S-3WR3			12V/250mA		
B2415S-3WR3			15V/200mA		
B2424S-3WR3			24V/125mA		
Appearance size: L×W×H 19.5*7*10mm					

B_D-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
B0303D-1WR3	1W	3.3V (2.97V-3.63V)	3.3V/303mA	78	1500VDC (DIP)
B0305D-1WR3			5V/200mA	79	
B0312D-1WR3			12V/84mA	80	
B0503D-1WR3	1W	5V (4.5V-5.5V)	3.3V/303mA	80	1500VDC (DIP)
B0505D-1WR3			5V/200mA	85	
B0509D-1WR3			9V/111mA	86	
B0512D-1WR3			12V/84mA	87	
B0515D-1WR3			15V/67mA		
B0524D-1WR3			24V/42mA		
B1203D-1WR3	1W	12V (10.8V-13.2V)	3.3V/303mA	81	1500VDC (DIP)
B1205D-1WR3			5V/200mA	86	
B1209D-1WR3			9V/111mA	87	
B1212D-1WR3			12V/84mA	88	
B1215D-1WR3			15V/67mA		
B1224D-1WR3			24V/42mA		
B1503D-1WR3	1W	15V (13.5V-16.5V)	3.3V/303mA	81	1500VDC (DIP)
B1505D-1WR3			5V/200mA	86	
B1509D-1WR3			9V/111mA	87	
B1512D-1WR3			12V/84mA	88	
B1515D-1WR3			15V/67mA		
B1524D-1WR3			24V/42mA		
B2403D-1WR3	1W	24V (21.6V-26.4V)	3.3V/303mA	81	1500VDC (DIP)
B2405D-1WR3			5V/200mA	86	
B2409D-1WR3			9V/111mA	87	
B2412D-1WR3			12V/84mA	88	
B2415D-1WR3			15V/67mA		
B2424D-1WR3			24V/42mA		
Appearance size: L×W×H 12.7*8.2*10.16mm					

B_M-2WR3 MODEL SELECTION

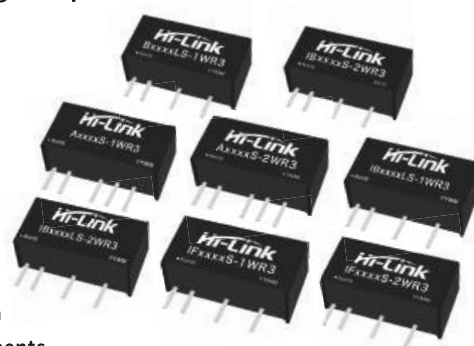
Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
B0303M-2WR3	2W	3.3V (2.97V-3.63V)	3.3V/606mA	78	1500VDC (SIP)
B0305M-2WR3			5V/400mA	79	
B0312M-2WR3			12V/168mA	80	
B0503M-2WR3	2W	5V (4.5V-5.5V)	3.3V/606mA	80	1500VDC (SIP)
B0505M-2WR3			5V/400mA	85	
B0509M-2WR3			9V/222mA	86	
B0512M-2WR3			12V/168mA	87	
B0515M-2WR3			15V/134mA		
B0524M-2WR3			24V/84mA		
B1203M-2WR3	2W	12V (10.8V-13.2V)	3.3V/606mA	81	1500VDC (SIP)
B1205M-2WR3			5V/400mA	86	
B1209M-2WR3			9V/222mA	87	
B1212M-2WR3			12V/168mA	88	
B1215M-2WR3			15V/134mA		
B1224M-2WR3			24V/84mA		
B1503M-2WR3	2W	15V (13.5V-16.5V)	3.3V/606mA	81	1500VDC (SIP)
B1505M-2WR3			5V/400mA	86	
B1509M-2WR3			9V/222mA	87	
B1512M-2WR3			12V/168mA	88	
B1515M-2WR3			15V/134mA		
B1524M-2WR3			24V/84mA		
B2403M-2WR3	2W	24V (21.6V-26.4V)	3.3V/606mA	81	1500VDC (SIP)
B2405M-2WR3			5V/400mA	86	
B2409M-2WR3			9V/222mA	87	
B2412M-2WR3			12V/168mA	88	
B2415M-2WR3			15V/134mA		
B2424M-2WR3			24V/84mA		
Appearance size: L×W×H 11.5*7*10mm					

B_LS/A_S/IB_LS/IB_S/IF_S Series(1-2W)

Rated voltage input, Isolated non-stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Rated voltage input, isolated non-stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Sustainable short-circuit protection, automatic recovery
- Input and output safety isolation, isolation voltage 1500VDC
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



B_LS-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
B0303LS-1WR3	1W	3.3V (2.97V-3.63V)	3.3V/303mA	76	1500VDC (SIP)
B0305LS-1WR3			5V/200mA	80	
B0312LS-1WR3			12V/84mA	84	
B0503LS-1WR3	1W	5V (4.5V-5.5V)	3.3V/303mA	76	1500VDC (SIP)
B0505LS-1WR3			5V/200mA	86	
B0509LS-1WR3			9V/111mA	87	
B0512LS-1WR3			12V/84mA		
B0515LS-1WR3			15V/67mA		
B0524LS-1WR3			24V/42mA		
B1203LS-1WR3	1W	12V (10.8V-13.2V)	3.3V/303mA	76	1500VDC (SIP)
B1205LS-1WR3			5V/200mA	86	
B1209LS-1WR3			9V/111mA	87	
B1212LS-1WR3			12V/84mA		
B1215LS-1WR3			15V/67mA		
B1224LS-1WR3			24V/42mA		
B1503LS-1WR3	1W	15V (13.5V-16.5V)	3.3V/303mA	76	1500VDC (SIP)
B1505LS-1WR3			5V/200mA	86	
B1509LS-1WR3			9V/111mA	87	
B1512LS-1WR3			12V/84mA		
B1515LS-1WR3			15V/67mA		
B1524LS-1WR3			24V/42mA		
B2403LS-1WR3	1W	24V (21.6V-26.4V)	3.3V/303mA	76	1500VDC (SIP)
B2405LS-1WR3			5V/200mA	86	
B2409LS-1WR3			9V/111mA	87	
B2412LS-1WR3			12V/84mA		
B2415LS-1WR3			15V/67mA		
B2424LS-1WR3			24V/42mA		
Appearance size: L×W×H 19.5*6*10mm					

Appearance size: L×W×H 19.5*6*10mm

IB_S-2WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
IB0303S-2WR3	2W	3.3V (3.14V-3.47V)	3.3V/606mA	68	1500VDC (SIP)
IB0305S-2WR3			5V/400mA		
IB0309S-2WR3			9V/224mA		
IB0312S-2WR3			12V/167mA		
IB0315S-2WR3			15V/133mA		
IB0324S-2WR3			24V/83mA		
IB0503S-2WR3	2W	5V (4.45V-5.25V)	3.3V/606mA	68	1500VDC (SIP)
IB0505S-2WR3			5V/400mA		
IB0509S-2WR3			9V/222mA		
IB0512S-2WR3			12V/166mA		
IB0515S-2WR3			15V/133mA		
IB0524S-2WR3			24V/83mA		
IB1203S-2WR3	2W	12V (11.4V-12.6V)	3.3V/606mA	68	1500VDC (SIP)
IB1205S-2WR3			5V/400mA		
IB1209S-2WR3			9V/222mA		
IB1212S-2WR3			12V/166mA		
IB1215S-2WR3			15V/133mA		
IB1224S-2WR3			24V/83mA		
IB2403S-2WR3	2W	24V (22.8V-25.2V)	3.3V/606mA	68	1500VDC (SIP)
IB2405S-2WR3			5V/400mA		
IB2409S-2WR3			9V/222mA		
IB2412S-2WR3			12V/166mA		
IB2415S-2WR3			15V/133mA		
IB2424S-2WR3			24V/83mA		

Appearance size: L×W×H 19.5*7*10mm

IB_LS-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
IB0303LS-1WR3	1W	3.3V (3.14V-3.47V)	3.3V/303mA	78	1500VDC (SIP)
IB0305LS-1WR3			5V/200mA	79	
IB0309LS-1WR3			9V/112mA	80	
IB0312LS-1WR3			12V/84mA		
IB0315LS-1WR3			15V/67mA		
IB0324LS-1WR3			24V/42mA		
IB0503LS-1WR3	1W	5V (4.75V-5.25V)	3.3V/303mA	63	1500VDC (SIP)
IB0505LS-1WR3			5V/200mA	64	
IB0509LS-1WR3			9V/112mA	70	
IB0512LS-1WR3			12V/84mA		
IB0515LS-1WR3			15V/67mA		
IB0524LS-1WR3			24V/42mA		
IB0903LS-2WR3	1W	9V (8.55V-9.45V)	3.3V/303mA	63	1500VDC (SIP)
IB0905LS-2WR3			5V/200mA	64	
IB0909LS-2WR3			9V/112mA	70	
IB0912LS-2WR3			12V/84mA		
IB0915LS-2WR3			15V/67mA		
IB0924LS-2WR3			24V/42mA		
IB1203LS-2WR3	1W	12V (11.4V-12.6V)	3.3V/303mA	63	1500VDC (SIP)
IB1205LS-2WR3			5V/200mA	64	
IB1209LS-2WR3			9V/112mA	70	
IB1212LS-2WR3			12V/84mA		
IB1215LS-2WR3			15V/67mA		
IB1224LS-2WR3			24V/42mA		
IB1503LS-2WR3	1W	15V (14.25V-15.75V)	3.3V/303mA	63	1500VDC (SIP)
IB1505LS-2WR3			5V/200mA	64	
IB1509LS-2WR3			9V/112mA	70	
IB1512LS-2WR3			12V/84mA		
IB1515LS-2WR3			15V/67mA		
IB1524LS-2WR3			24V/42mA		
IB2403LS-1WR3	1W	24V (22.8V-25.2V)	3.3V/303mA	63	1500VDC (SIP)
IB2405LS-1WR3			5V/200mA	64	
IB2409LS-1WR3			9V/112mA	70	
IB2412LS-1WR3			12V/84mA		
IB2415LS-1WR3			15V/67mA		
IB2424LS-1WR3			24V/42mA		
Appearance size: L×W×H 19.5*6*10mm					

IF_S-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
IF0303S-1WR3	1W	3.3V (3.14V-3.47V)	3.3V/303mA	70	3000VDC (SIP)
IF0305S-1WR3			5V/200mA		
IF0309S-1WR3			9V/112mA	74	
IF0312S-1WR3			12V/84mA		
IF0315S-1WR3			15V/67mA		
IF0324S-1WR3			24V/42mA		
IF0503S-1WR3	1W	5V (4.75V-5.25V)	3.3V/303mA	70	3000VDC (SIP)
IF0505S-1WR3			5V/200mA		
IF0509S-1WR3			9V/112mA	74	
IF0512S-1WR3			12V/84mA		
IF0515S-1WR3			15V/67mA		
IF0524S-1WR3			24V/42mA		
IF0903S-1WR3	1W	9V (8.55V-9.45V)	3.3V/303mA	70	3000VDC (SIP)
IF0905S-1WR3			5V/200mA		
IF0909S-1WR3			9V/112mA	74	
IF0912S-1WR3			12V/84mA		
IF0915S-1WR3			15V/67mA		
IF0924S-1WR3			24V/42mA		
IF1203S-1WR3	1W	12V (11.4V-12.6V)	3.3V/303mA	70	3000VDC (SIP)
IF1205S-1WR3			5V/200mA		
IF1209S-1WR3			9V/112mA	74	
IF1212S-1WR3			12V/84mA		
IF1215S-1WR3			15V/67mA		
IF1224S-1WR3			24V/42mA		
IF1503S-1WR3	1W	15V (14.25V-15.75V)	3.3V/303mA	70	3000VDC (SIP)
IF1505S-1WR3			5V/200mA		
IF1509S-1WR3			9V/112mA	74	
IF1512S-1WR3			12V/84mA		
IF1515S-1WR3			15V/67mA		
IF1524S-1WR3			24V/42mA		
IF2403S-1WR3	1W	24V (22.8V-25.2V)	3.3V/303mA	70	3000VDC (SIP)
IF2405S-1WR3			5V/200mA		
IF2409S-1WR3			9V/112mA	74	
IF2412S-1WR3			12V/84mA		
IF2415S-1WR3			15V/67mA		
IF2424S-1WR3			24V/42mA		
Appearance size: L×W×H 19.5*6*10mm					

IF_S-2WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
IF0303S-2WR3	2W	3.3V (3.14V-3.47V)	3.3V/606mA	72	3000VDC (SIP)
IF0305S-2WR3			5V/400mA	76	
IF0309S-2WR3			9V/222mA	82	
IF0312S-2WR3			12V/166mA		
IF0315S-2WR3			15V/133mA		
IF0324S-2WR3		24V/83mA			
IF0503S-2WR3	2W	5V (4.75V-5.25V)	3.3V/606mA	72	3000VDC (SIP)
IF0505S-2WR3			5V/400mA	76	
IF0509S-2WR3			9V/222mA	82	
IF0512S-2WR3			12V/166mA		
IF0515S-2WR3			15V/133mA		
IF0524S-2WR3		24V/83mA			
IF0903S-2WR3	2W	9V (8.55V-9.45V)	3.3V/606mA	78	3000VDC (SIP)
IF0905S-2WR3			5V/400mA	82	
IF0909S-2WR3			9V/222mA		
IF0912S-2WR3			12V/166mA		
IF0915S-2WR3			15V/133mA		
IF0924S-2WR3		24V/83mA			
IF1203S-2WR3	2W	12V (11.4V-12.6V)	3.3V/606mA	72	3000VDC (SIP)
IF1205S-2WR3			5V/400mA	82	
IF1209S-2WR3			9V/222mA		
IF1212S-2WR3			12V/166mA		
IF1215S-2WR3			15V/133mA		
IF1224S-2WR3		24V/83mA			
IF1503S-2WR3	2W	15V (14.25V-15.75V)	3.3V/606mA	78	3000VDC (SIP)
IF1505S-2WR3			5V/400mA	82	
IF1509S-2WR3			9V/222mA		
IF1512S-2WR3			12V/166mA		
IF1515S-2WR3			15V/133mA		
IF1524S-2WR3		24V/83mA			
IF2403S-2WR3	2W	24V (22.8V-25.2V)	3.3V/606mA	78	3000VDC (SIP)
IF2405S-2WR3			5V/400mA	82	
IF2409S-2WR3			9V/222mA		
IF2412S-2WR3			12V/166mA		
IF2415S-2WR3			15V/133mA		
IF2424S-2WR3		24V/83mA	83		
Appearance size: L×W×H 19.5*7*10mm					

Appearance size: L×W×H 19.5*7*10mm

A_S-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage	
A0303S-1WR3	1W	3.3V (2.97V-3.63V)	± 3.3V/±152mA	76	1500VDC (SIP)	
A0305S-1WR3			±5V/±100mA	86		
A0309S-1WR3			±9V/±56mA	87		
A0312S-1WR3			±12V/±42mA			
A0315S-1WR3			±15V/±34mA			
A0324S-1WR3	1W	5V (4.5V-5.5V)	±24V/±21mA	87	1500VDC (SIP)	
A0503S-1WR3			± 3.3V/±152mA			76
A0505S-1WR3			±5V/±100mA			86
A0509S-1WR3			±9V/±56mA			87
A0512S-1WR3			±12V/±42mA			
A0515S-1WR3	1W	12V (10.8V-13.2V)	±15V/±34mA	87	1500VDC (SIP)	
A0524S-1WR3			±24V/±21mA			
A1203S-1WR3			± 3.3V/±152mA			76
A1205S-1WR3			±5V/±100mA			86
A1209S-1WR3			±9V/±56mA			87
A1212S-1WR3	±12V/±42mA					
A1215S-1WR3	±15V/±34mA					
A1224S-1WR3	1W	15V (13.5V-16.5V)	±24V/±21mA	87	1500VDC (SIP)	
A1503S-1WR3			± 3.3V/±152mA			76
A1505S-1WR3			±5V/±100mA			86
A1509S-1WR3			±9V/±56mA			87
A1512S-1WR3			±12V/±42mA			
A1515S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A1524S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1500VDC (SIP)	
A2424S-1WR3			±24V/±21mA			
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3	±12V/±42mA					
A2415S-1WR3	±15V/±34mA					
A2424S-1WR3	1W	24V (21.6V-26.4V)	±24V/±21mA	87	1500VDC (SIP)	
A2403S-1WR3			± 3.3V/±152mA			76
A2405S-1WR3			±5V/±100mA			86
A2409S-1WR3			±9V/±56mA			87
A2412S-1WR3			±12V/±42mA			
A2415S-1WR3	1W	24V (21.6V-26.4V)	±15V/±34mA	87	1	

Appearance size: L×W×H 19.5*6*10mm

A_S-2WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
A0303S-2WR3	2W	3.3V (2.97V-3.63V)	±3.3V/±303mA	78	1500VDC (SIP)
A0305S-2WR3			±5V/±200mA	79	
A0309S-2WR3			±9V/±112mA	80	
A0312S-2WR3			±12V/±84mA		
A0315S-2WR3			±15V/±68mA		
A0324S-2WR3			±24V/±42mA		
A0503S-2WR3	2W	5V (4.5V-5.5V)	±3.3V/±303mA	80	1500VDC (SIP)
A0505S-2WR3			±5V/±200mA	85	
A0509S-2WR3			±9V/±112mA	86	
A0512S-2WR3			±12V/±84mA	87	
A0515S-2WR3			±15V/±68mA		
A0524S-2WR3			±24V/±42mA		
A0903S-2WR3	2W	9V (8.1V-9.9V)	±3.3V/±303mA	80	1500VDC (SIP)
A0905S-2WR3			±5V/±200mA	85	
A0909S-2WR3			±9V/±112mA	86	
A0912S-2WR3			±12V/±84mA	87	
A0915S-2WR3			±15V/±68mA		
A0924S-2WR3			±24V/±42mA		
A1203S-2WR3	2W	12V (10.8V-13.2V)	±3.3V/±303mA	81	1500VDC (SIP)
A1205S-2WR3			±5V/±200mA	86	
A1209S-2WR3			±9V/±112mA	87	
A1212S-2WR3			±12V/±84mA	88	
A1215S-2WR3			±15V/±68mA		
A1224S-2WR3			±24V/±42mA		
A1503S-2WR3	2W	15V (13.5V-16.5V)	±3.3V/±303mA	81	1500VDC (SIP)
A1505S-2WR3			±5V/±200mA	86	
A1509S-2WR3			±9V/±112mA	87	
A1512S-2WR3			±12V/±84mA	88	
A1515S-2WR3			±15V/±68mA		
A1524S-2WR3			±24V/±42mA		
A2403S-2WR3	2W	24V (21.6V-26.4V)	±3.3V/±303mA	81	1500VDC (SIP)
A2405S-2WR3			±5V/±200mA	86	
A2409S-2WR3			±9V/±112mA	87	
A2412S-2WR3			±12V/±84mA	88	
A2415S-2WR3			±15V/±68mA	87	
A2424S-2WR3			±24V/±42mA		
Appearance size: L×W×H 19.5*7*10mm					

Appearance size: L×W×H 19.5*7*10mm

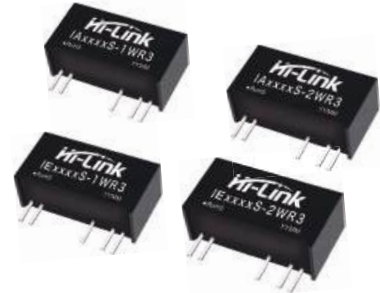
*The above is only parts of standard models. If you need other models, please contact our sales team.

IA_S/IE_S Series(1-2W)

Rated voltage input, Isolated non-stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Rated voltage input, isolated non-stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Sustainable short-circuit protection, automatic recovery
- Input and output safety isolation, isolation voltage 1500VDC/3000VDC
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



IA_S-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency %(Typ)	Isolation voltage
IA0303S-1WR3	1W	3.3V (2.97V-3.63V)	±3.3V/±152mA	64	1500VDC (SIP)
IA0305S-1WR3			±5V/±100mA		
IA0309S-1WR3			±9V/±56mA	70	
IA0312S-1WR3			±12V/±42mA		
IA0315S-1WR3			±15V/±34mA		
IA0324S-1WR3			±24V/±21mA		
IA0503S-1WR3	1W	5V (4.5V-5.5V)	±3.3V/±152mA	70	1500VDC (SIP)
IA0505S-1WR3			±5V/±100mA		
IA0509S-1WR3			±9V/±56mA	73	
IA0512S-1WR3			±12V/±42mA		
IA0515S-1WR3			±15V/±34mA		
IA0524S-1WR3			±24V/±21mA		
IA0903S-1WR3	1W	9V (8.55V-9.45V)	±3.3V/±152mA	70	1500VDC (SIP)
IA0905S-1WR3			±5V/±100mA		
IA0909S-1WR3			±9V/±56mA	75	
IA0912S-1WR3			±12V/±42mA		
IA0915S-1WR3			±15V/±34mA	76	
IA0924S-1WR3			±24V/±21mA		
IA1203S-1WR3	1W	12V (10.8V-13.2V)	±3.3V/±152mA	70	1500VDC (SIP)
IA1205S-1WR3			±5V/±100mA		
IA1209S-1WR3			±9V/±56mA	79	
IA1212S-1WR3			±12V/±42mA		
IA1215S-1WR3			±15V/±34mA		
IA1224S-1WR3			±24V/±21mA		
IA1503S-1WR3	1W	15V (13.5V-16.5V)	±3.3V/±152mA	70	1500VDC (SIP)
IA1505S-1WR3			±5V/±100mA		
IA1509S-1WR3			±9V/±56mA	75	
IA1512S-1WR3			±12V/±42mA		
IA1515S-1WR3			±15V/±34mA	76	
IA1524S-1WR3			±24V/±21mA		
IA2403S-1WR3	1W	24V (21.6V-26.4V)	±3.3V/±152mA	70	1500VDC (SIP)
IA2405S-1WR3			±5V/±100mA		
IA2409S-1WR3			±9V/±56mA	79	
IA2412S-1WR3			±12V/±42mA		
IA2415S-1WR3			±15V/±34mA		
IA2424S-1WR3			±24V/±21mA		
Appearance size: L×W×H 27*8.5*11mm					

Appearance size: L×W×H 27*8.5*11mm

IA_S-2WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency %(Typ)	Isolation voltage
IA0503S-2WR3	2W	5V (4.75V-5.25V)	±3.3V/±303mA	70	1500VDC (SIP)
IA0505S-2WR3			±5V/±200mA		
IA0509S-2WR3			±9V/±112mA	73	
IA0512S-2WR3			±12V/±83mA		
IA0515S-2WR3			±15V/±67mA		
IA0524S-2WR3		±24V/±42mA			
IA0903S-2WR3	2W	9V (8.55V-9.45V)	±3.3V/±303mA	70	1500VDC (SIP)
IA0905S-2WR3			±5V/±200mA		
IA0909S-2WR3			±9V/±112mA	73	
IA0912S-2WR3			±12V/±83mA		
IA0915S-2WR3			±15V/±67mA		
IA0924S-2WR3		±24V/±42mA			
IA1203S-2WR3	2W	12V (11.4V-12.6V)	±3.3V/±303mA	70	1500VDC (SIP)
IA1205S-2WR3			±5V/±200mA		
IA1209S-2WR3			±9V/±112mA	75	
IA1212S-2WR3			±12V/±83mA		
IA1215S-2WR3			±15V/±67mA	76	
IA1224S-2WR3		±24V/±42mA			
IA1503S-2WR3	2W	15V (14.25V-15.75V)	±3.3V/±303mA	70	1500VDC (SIP)
IA1505S-2WR3			±5V/±200mA		
IA1509S-2WR3			±9V/±112mA	79	
IA1512S-2WR3			±12V/±83mA		
IA1515S-2WR3			±15V/±67mA		
IA1524S-2WR3		±24V/±42mA			
IA2403S-2WR3	2W	24V (22.8V-25.2V)	±3.3V/±303mA	70	1500VDC (SIP)
IA2405S-2WR3			±5V/±200mA		
IA2409S-2WR3			±9V/±112mA	79	
IA2412S-2WR3			±12V/±83mA		
IA2415S-2WR3			±15V/±67mA		
IA2424S-2WR3		±24V/±42mA			
Appearance size: L×W×H 27*8.5*11mm					

Appearance size: L×W×H 27*8.5*11mm

IE_S-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
IE0303S-1WR3	1W	3.3V (3.14V-3.47V)	± 3.3V/± 152mA	70	3000VDC (SIP)
IE0305S-1WR3			± 5V/± 100mA		
IE0309S-1WR3			± 9V/± 56mA		
IE0312S-1WR3			± 12V/± 42mA	73	
IE0315S-1WR3			± 15V/± 34mA		
IE0324S-1WR3			± 24V/± 21mA		
IE0503S-1WR3	1W	5V (4.75V-5.25V)	± 3.3V/± 122mA	70	3000VDC (SIP)
IE0505S-1WR3			± 5V/± 100mA		
IE0509S-1WR3			± 9V/± 56mA		
IE0512S-1WR3			± 12V/± 42mA	75	
IE0515S-1WR3			± 15V/± 34mA		
IE0524S-1WR3			± 24V/± 21mA	76	
IE0903S-1WR3	1W	9V (8.55V-9.45V)	± 3.3V/± 152mA	70	3000VDC (SIP)
IE0905S-1WR3			± 5V/± 100mA		
IE0909S-1WR3			± 9V/± 56mA		
IE0912S-1WR3			± 12V/± 42mA	73	
IE0915S-1WR3			± 15V/± 34mA		
IE0924S-1WR3			± 24V/± 21mA		
IE1203S-1WR3	1W	12V (10.8V-13.2V)	± 3.3V/± 152mA	70	3000VDC (SIP)
IE1205S-1WR3			± 5V/± 100mA		
IE1209S-1WR3			± 9V/± 56mA		
IE1212S-1WR3			± 12V/± 42mA	73	
IE1215S-1WR3			± 15V/± 34mA		
IE1224S-1WR3			± 24V/± 21mA		
IE1503S-1WR3	1W	15V (13.5V-16.5V)	± 3.3V/± 122mA	70	3000VDC (SIP)
IE1505S-1WR3			± 5V/± 100mA		
IE1509S-1WR3			± 9V/± 56mA		
IE1512S-1WR3			± 12V/± 42mA	73	
IE1515S-1WR3			± 15V/± 34mA		
IE1524S-1WR3			± 24V/± 21mA		
IE2403S-1WR3	1W	24V (21.6V-26.4V)	± 3.3V/± 152mA	70	3000VDC (SIP)
IE2405S-1WR3			± 5V/± 100mA		
IE2409S-1WR3			± 9V/± 56mA		
IE2412S-1WR3			± 12V/± 42mA	79	
IE2415S-1WR3			± 15V/± 34mA		
IE2424S-1WR3			± 24V/± 21mA		
Appearance size: L×W×H 27*8.5*11mm					

IE_S-2WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage/ current(Vo/Io)	Efficiency %(Typ)	Isolation voltage
IE0303S-2WR3	2W	3V (3.14V-3.47V)	±3.3V/±303mA	70	3000VDC (SIP)
IE0305S-2WR3			±5V/±200mA		
IE0309S-2WR3			±9V/±112mA		
IE0312S-2WR3			±12V/±84mA	73	
IE0315S-2WR3			±15V/±67mA		
IE0324S-2WR3			±24V/±42mA		
IE0503S-2WR3	2W	5V (4.75V-5.25V)	±3.3V/±303mA	70	3000VDC (SIP)
IE0505S-2WR3			±5V/±200mA		
IE0509S-2WR3			±9V/±112mA		
IE0512S-2WR3			±12V/±84mA	75	
IE0515S-2WR3			±15V/±67mA		
IE0524S-2WR3			±24V/±42mA	76	
IE0903S-2WR3	2W	9V (8.55V-9.45V)	±3.3V/±303mA	70	3000VDC (SIP)
IE0905S-2WR3			±5V/±200mA		
IE0909S-2WR3			±9V/±112mA		
IE0912S-2WR3			±12V/±84mA	73	
IE0915S-2WR3			±15V/±67mA		
IE0924S-2WR3			±24V/±42mA		
IE1203S-2WR3	2W	12V (11.4V-12.6V)	±3.3V/±303mA	70	3000VDC (SIP)
IE1205S-2WR3			±5V/±200mA		
IE1209S-2WR3			±9V/±112mA		
IE1212S-2WR3			±12V/±84mA	73	
IE1215S-2WR3			±15V/±67mA		
IE1224S-2WR3			±24V/±42mA		
IE1503S-2WR3	2W	15V (14.25V-15.75V)	±3.3V/±303mA	70	3000VDC (SIP)
IE1505S-2WR3			±5V/±200mA		
IE1509S-2WR3			±9V/±112mA		
IE1512S-2WR3			±12V/±84mA	73	
IE1515S-2WR3			±15V/±67mA		
IE1524S-2WR3			±24V/±42mA		
IE2403S-2WR3	2W	24V (22.8V-25.2V)	±3.3V/±303mA	70	3000VDC (SIP)
IE2405S-2WR3			±5V/±200mA		
IE2409S-2WR3			±9V/±112mA		
IE2412S-2WR3			±12V/±84mA	79	
IE2415S-2WR3			±15V/±67mA		
IE2424S-2WR3			±24V/±42mA		
Appearance size: L×W×H 27*8.5*11mm					

D_S/F_S/E_S Series(1-3W)

Rated voltage input, Isolated non-stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Rated voltage input, isolated non-stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Sustainable short-circuit protection, automatic recovery
- Input and output safety isolation, isolation voltage 1500VDC/3000VDC
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



D_S-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
D0303S-1WR3	1W	3.3V (2.97V-3.63V)	3.3V/303mA	70	1500VDC (SIP)
D0305S-1WR3			5V/200mA	74	
D0309S-1WR3			9V/112mA		
D0312S-1WR3			12V/84mA		
D0315S-1WR3			15V/67mA		
D0324S-1WR3			24V/42mA		
D0503S-1WR3	1W	5V (4.5V-5.5V)	3.3V/303mA	72	1500VDC (SIP)
D0505S-1WR3			5V/200mA	76	
D0509S-1WR3			9V/112mA		
D0512S-1WR3			12V/84mA		
D0515S-1WR3			15V/67mA		
D0524S-1WR3			24V/42mA		
D0903S-1WR3	1W	9V (8.1V-9.9V)	3.3V/303mA	72	1500VDC (SIP)
D0905S-1WR3			5V/200mA	76	
D0909S-1WR3			9V/112mA		
D0912S-1WR3			12V/84mA		
D0915S-1WR3			15V/67mA		
D0924S-1WR3			24V/42mA		
D1203S-1WR3	1W	12V (10.8V-13.2V)	3.3V/303mA	72	1500VDC (SIP)
D1205S-1WR3			5V/200mA	76	
D1209S-1WR3			9V/112mA		
D1212S-1WR3			12V/84mA		
D1215S-1WR3			15V/67mA		
D1224S-1WR3			24V/42mA		
D1503S-1WR3	1W	15V (13.5V-16.5V)	3.3V/303mA	76	1500VDC (SIP)
D1505S-1WR3			5V/200mA		
D1509S-1WR3			9V/112mA		
D1512S-1WR3			12V/84mA		
D1515S-1WR3			15V/67mA		
D1524S-1WR3			24V/42mA		
D2403S-1WR3	1W	24V (21.6V-26.4V)	3.3V/303mA	76	1500VDC (SIP)
D2405S-1WR3			5V/200mA		
D2409S-1WR3			9V/112mA		
D2412S-1WR3			12V/84mA		
D2415S-1WR3			15V/67mA		
D2424S-1WR3			24V/42mA		
Appearance size: L×W×H 19.5*6*10mm					

Appearance size: L×W×H 19.5*6*10mm

D_S-2WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
D0303S-2WR3	2W	3.3V (2.97V-3.63V)	3.3V/606mA	72	1500VDC (SIP)
D0305S-2WR3			5V/400mA	76	
D0309S-2WR3			9V/222mA	82	
D0312S-2WR3			12V/166mA		
D0315S-2WR3			15V/133mA		
D0324S-2WR3			24V/83mA		
D0503S-2WR3	2W	5V (4.5V-5.5V)	3.3V/606mA	72	1500VDC (SIP)
D0505S-2WR3			5V/400mA	76	
D0509S-2WR3			9V/222mA	82	
D0512S-2WR3			12V/166mA		
D0515S-2WR3			15V/133mA		
D0524S-2WR3			24V/83mA		
D0903S-2WR3	2W	9V (8.1V-9.9V)	3.3V/606mA	78	1500VDC (SIP)
D0905S-2WR3			5V/400mA	82	
D0909S-2WR3			9V/222mA		
D0912S-2WR3			12V/166mA		
D0915S-2WR3			15V/133mA		
D0924S-2WR3			24V/83mA		
D1203S-2WR3	2W	12V (10.8V-13.2V)	3.3V/606mA	72	1500VDC (SIP)
D1205S-2WR3			5V/400mA	82	
D1209S-2WR3			9V/222mA		
D1212S-2WR3			12V/166mA		
D1215S-2WR3			15V/133mA		
D1224S-2WR3			24V/83mA		
D1503S-2WR3	2W	15V (13.5V-16.5V)	3.3V/606mA	78	1500VDC (SIP)
D1505S-2WR3			5V/400mA	82	
D1509S-2WR3			9V/222mA		
D1512S-2WR3			12V/166mA		
D1515S-2WR3			15V/133mA		
D1524S-2WR3			24V/83mA		
D2403S-2WR3	2W	24V (21.6V-26.4V)	3.3V/606mA	78	1500VDC (SIP)
D2405S-2WR3			5V/400mA	82	
D2409S-2WR3			9V/222mA		
D2412S-2WR3			12V/166mA		
D2415S-2WR3			15V/133mA		
D2424S-2WR3			24V/83mA		
Appearance size: L×W×H 19.5*7*10mm					

Appearance size: L×W×H 19.5*7*10mm

F_S-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage/ current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
F0303S-1WR3	1W	3.3V (2.97V-3.63V)	3.3V/303mA	78	3000VDC (SIP)
F0305S-1WR3			5V/200mA	79	
F0312S-1WR3			12V/84mA	80	
F0503S-1WR3	1W	5V (4.5V-5.5V)	3.3V/303mA	80	3000VDC (SIP)
F0505S-1WR3			5V/200mA	85	
F0509S-1WR3			9V/111mA		
F0512S-1WR3			12V/84mA	86	
F0515S-1WR3			15V/67mA	87	
F0524S-1WR3			24V/42mA		
F1203S-1WR3	1W	12V (10.8V-13.2V)	3.3V/303mA	81	3000VDC (SIP)
F1205S-1WR3			5V/200mA	86	
F1209S-1WR3			9V/111mA	87	
F1212S-1WR3			12V/84mA	88	
F1215S-1WR3			15V/67mA		
F1224S-1WR3			24V/42mA		
F1503S-1WR3	1W	15V (13.5V-16.5V)	3.3V/303mA	81	3000VDC (SIP)
F1505S-1WR3			5V/200mA	86	
F1509S-1WR3			9V/111mA	87	
F1512S-1WR3			12V/84mA	88	
F1515S-1WR3			15V/67mA		
F1524S-1WR3			24V/42mA		
F2403S-1WR3	1W	24V (21.6V-26.4V)	3.3V/303mA	81	3000VDC (SIP)
F2405S-1WR3			5V/200mA	86	
F2409S-1WR3			9V/111mA	87	
F2412S-1WR3			12V/84mA	88	
F2415S-1WR3			15V/67mA		
F2424S-1WR3			24V/42mA		
Appearance size: L×W×H 19.5*6*10mm					

F_S-2WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage	
F0303S-2WR3	2W	3.3V (2.97V-3.63V)	3.3V/606mA	80	3000VDC (SIP)	
F0305S-2WR3			5V/400mA	82		
F0309S-2WR3			9V/224mA			
F0312S-2WR3			12V/167mA			
F0315S-2WR3			15V/133mA	82		
F0324S-2WR3	24V/83mA					
F0503S-2WR3	2W	5V (4.5V-5.5V)	3.3V/606mA		82	3000VDC (SIP)
F0505S-2WR3			5V/400mA	86		
F0509S-2WR3			9V/224mA	82		
F0512S-2WR3			12V/167mA			
F0515S-2WR3			15V/133mA			
F0524S-2WR3	24V/83mA	82	3000VDC (SIP)			
F0903S-2WR3	2W			9V (8.1V-9.9V)	3.3V/606mA	
F0905S-2WR3					5V/400mA	
F0909S-2WR3					9V/224mA	
F0912S-2WR3					12V/167mA	
F0915S-2WR3		15V/133mA				
F0924S-2WR3	24V/83mA	80	3000VDC (SIP)			
F1203S-2WR3	2W			12V (10.8V-13.2V)	3.3V/606mA	
F1205S-2WR3					5V/400mA	
F1209S-2WR3					9V/224mA	82
F1212S-2WR3					12V/167mA	
F1215S-2WR3		15V/133mA				
F1224S-2WR3	24V/83mA	82	3000VDC (SIP)			
F1503S-2WR3	2W			15V (13.5V-16.5V)	3.3V/606mA	
F1505S-2WR3					5V/400mA	86
F1509S-2WR3					9V/224mA	82
F1512S-2WR3					12V/167mA	
F1515S-2WR3		15V/133mA				
F1524S-2WR3	2W	24V (21.6V-26.4V)	24V/83mA	82	3000VDC (SIP)	
F2403S-2WR3			3.3V/606mA			
F2405S-2WR3			5V/400mA			
F2409S-2WR3			9V/224mA			
F2412S-2WR3			12V/167mA	83		
F2415S-2WR3			15V/133mA			
F2424S-2WR3			24V/83mA			
Appearance size: L×W×H 19.5*7*10mm						

F_S-3WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage/ current(Vo/Io)	Efficiency % (Typ)	Isolation voltage	
F0503S-3WR3	3W	5V (4.5V-5.5V)	3.3V/909mA	78	3000VDC (SIP)	
F0505S-3WR3			5V/600mA	82		
F0509S-3WR3			9V/333mA	84		
F0512S-3WR3			12V/250mA			
F0515S-3WR3			15V/200mA			
F0524S-3WR3	3W	12V (10.8V-13.2V)	24V/125mA	84	3000VDC (SIP)	
F1203S-3WR3			3.3V/909mA			78
F1205S-3WR3			5V/600mA			82
F1209S-3WR3			9V/333mA			84
F1212S-3WR3			12V/250mA			
F1215S-3WR3			15V/200mA			
F1224S-3WR3	3W	15V (13.5V-16.5V)	24V/125mA	84	3000VDC (SIP)	
F1503S-3WR3			3.3V/909mA			78
F1505S-3WR3			5V/600mA			82
F1509S-3WR3			9V/333mA			84
F1512S-3WR3			12V/250mA			
F1515S-3WR3			15V/200mA			
F1524S-3WR3	3W	24V (21.6V-26.4V)	24V/125mA	84	3000VDC (SIP)	
F2403S-3WR3			3.3V/909mA			78
F2405S-3WR3			5V/600mA			82
F2409S-3WR3			9V/333mA			84
F2412S-3WR3			12V/250mA			
F2415S-3WR3			15V/200mA			
F2424S-3WR3			24V/125mA			
Appearance size: L×W×H 19.5*7*10mm						

E_S-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
E0303S-1WR3	1W	3.3V (2.97V-3.63V)	± 3.3V/± 152mA	78	3000VDC (SIP)
E0305S-1WR3			± 5V/± 100mA	79	
E0309S-1WR3			± 9V/± 56mA	81	
E0312S-1WR3			± 12V/± 42mA	82	
E0315S-1WR3			± 15V/± 34mA		
E0324S-1WR3			± 24V/± 21mA	84	
E0503S-1WR3	1W	5V (4.5V-5.5V)	± 3.3V/± 122mA	81	3000VDC (SIP)
E0505S-1WR3			± 5V/± 100mA	84	
E0509S-1WR3			± 9V/± 56mA	85	
E0512S-1WR3			± 12V/± 42mA		
E0515S-1WR3			± 15V/± 34mA		
E0524S-1WR3			± 24V/± 21mA	86	
E1203S-1WR3	1W	12V (10.8V-13.2V)	± 3.3V/± 152mA	81	3000VDC (SIP)
E1205S-1WR3			± 5V/± 100mA	82	
E1209S-1WR3			± 9V/± 56mA	84	
E1212S-1WR3			± 12V/± 42mA		
E1215S-1WR3			± 15V/± 34mA		
E1224S-1WR3			± 24V/± 21mA	88	
E1503S-1WR3	1W	15V (13.5V-16.5V)	± 3.3V/± 122mA	81	3000VDC (SIP)
E1505S-1WR3			± 5V/± 100mA	82	
E1509S-1WR3			± 9V/± 56mA	84	
E1512S-1WR3			± 12V/± 42mA	88	
E1515S-1WR3			± 15V/± 34mA		
E1524S-1WR3			± 24V/± 21mA		
E2403S-1WR3	1W	24V (21.6V-26.4V)	± 3.3V/± 152mA	81	3000VDC (SIP)
E2405S-1WR3			± 5V/± 100mA	82	
E2409S-1WR3			± 9V/± 56mA	84	
E2412S-1WR3			± 12V/± 42mA	88	
E2415S-1WR3			± 15V/± 34mA		
E2424S-1WR3			± 24V/± 21mA		
Appearance size: L×W×H 19.5*6*10mm					

E_S-2WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
E0503S-2WR3	2W	5V (4.5V-5.5V)	±3.3V/±303mA	76	3000VDC (SIP)
E0505S-2WR3			±5V/±200mA	86	
E0509S-2WR3			±9V/±112mA	87	
E0512S-2WR3			±12V/±84mA		
E0515S-2WR3			±15V/±67mA		
E0524S-2WR3			±24V/±42mA		
E0903S-2WR3	2W	9V (8.1V-9.9V)	±3.3V/±303mA	76	3000VDC (SIP)
E0905S-2WR3			±5V/±200mA	86	
E0909S-2WR3			±9V/±112mA	87	
E0912S-2WR3			±12V/±84mA		
E0915S-2WR3			±15V/±67mA		
E0924S-2WR3			±24V/±42mA		
E1203S-2WR3	2W	12V (10.8V-13.2V)	±3.3V/±303mA	76	3000VDC (SIP)
E1205S-2WR3			±5V/±200mA	86	
E1209S-2WR3			±9V/±112mA	87	
E1212S-2WR3			±12V/±84mA		
E1215S-2WR3			±15V/±67mA		
E1224S-2WR3			±24V/±42mA		
E1503S-2WR3	2W	15V (13.5V-16.5V)	±3.3V/±303mA	76	3000VDC (SIP)
E1505S-2WR3			±5V/±200mA	86	
E1509S-2WR3			±9V/±112mA	87	
E1512S-2WR3			±12V/±84mA		
E1515S-2WR3			±15V/±67mA		
E1524S-2WR3			±24V/±42mA		
E2403S-2WR3	2W	24V (21.6V-26.4V)	±3.3V/±303mA	76	3000VDC (SIP)
E2405S-2WR3			±5V/±200mA	86	
E2409S-2WR3			±9V/±112mA	87	
E2412S-2WR3			±12V/±84mA		
E2415S-2WR3			±15V/±67mA		
E2424S-2WR3			±24V/±42mA		
Appearance size: L×W×H 19.5*7*10mm					

H_S/G_S Series(1-2W)

Rated voltage input, Isolated non-stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Rated voltage input, isolated non-stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Sustainable short-circuit protection, automatic recovery
- Input and output safety isolation, isolation voltage 6000VDC
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



H_S-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage/ current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
H0303S-1WR3	1W	3.3V (2.97V-3.63V)	3.3V/303mA	68	6000VDC (SIP)
H0305S-1WR3			5V/200mA	72	
H0312S-1WR3			12V/84mA	76	
H0503S-1WR3	1W	5V (4.5V-5.5V)	3.3V/303mA	68	6000VDC (SIP)
H0505S-1WR3			5V/200mA	76	
H0509S-1WR3			9V/111mA		
H0512S-1WR3			12V/84mA		
H0515S-1WR3			15V/67mA		
H0524S-1WR3			24V/42mA		
H0903S-1WR3	1W	9V (8.1V-9.9V)	3.3V/303mA	68	6000VDC (SIP)
H0905S-1WR3			5V/200mA	76	
H0909S-1WR3			9V/111mA		
H0912S-1WR3			12V/84mA		
H0915S-1WR3			15V/67mA		
H0924S-1WR3			24V/42mA		
H1203S-1WR3	1W	12V (10.8V-13.2V)	3.3V/303mA	68	6000VDC (SIP)
H1205S-1WR3			5V/200mA	76	
H1209S-1WR3			9V/111mA		
H1212S-1WR3			12V/84mA		
H1215S-1WR3			15V/67mA		
H1224S-1WR3			24V/42mA		
H1503S-1WR3	1W	15V (13.5V-16.5V)	3.3V/303mA	68	6000VDC (SIP)
H1505S-1WR3			5V/200mA	76	
H1509S-1WR3			9V/111mA		
H1512S-1WR3			12V/84mA		
H1515S-1WR3			15V/67mA		
H1524S-1WR3			24V/42mA		
H2403S-1WR3	1W	24V (21.6V-26.4V)	3.3V/303mA	68	6000VDC (SIP)
H2405S-1WR3			5V/200mA	76	
H2409S-1WR3			9V/111mA		
H2412S-1WR3			12V/84mA		
H2415S-1WR3			15V/67mA		
H2424S-1WR3			24V/42mA		
Appearance size: L×W×H 19.5*9.8*12mm					

H_S-2WR3 MODEL SELECTIONC

Model	Power	Input voltage (VDC)	Output voltage/ current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
H0303S-2WR3	2W	3.3V (2.97V-3.63V)	3.3V/606mA	76	6000VDC (SIP)
H0305S-2WR3			5V/400mA	86	
H0309S-2WR3			9V/222mA	87	
H0312S-2WR3			12V/166mA		
H0315S-2WR3			15V/133mA		
H0324S-2WR3			24V/83mA		
H0503S-2WR3	2W	5V (4.75V-5.25V)	3.3V/606mA	76	6000VDC (SIP)
H0505S-2WR3			5V/400mA	86	
H0509S-2WR3			9V/222mA	87	
H0512S-2WR3			12V/166mA		
H0515S-2WR3			15V/133mA		
H0524S-2WR3			24V/83mA		
H0903S-2WR3	2W	9V (8.1V-9.9V)	3.3V/606mA	76	6000VDC (SIP)
H0905S-2WR3			5V/400mA	86	
H0909S-2WR3			9V/222mA	87	
H0912S-2WR3			12V/166mA		
H0915S-2WR3			15V/133mA		
H0924S-2WR3			24V/83mA		
H1203S-2WR3	2W	12V (10.8V-13.2V)	3.3V/606mA	81	6000VDC (SIP)
H1205S-2WR3			5V/400mA	86	
H1209S-2WR3			9V/222mA	87	
H1212S-2WR3			12V/166mA	88	
H1215S-2WR3			15V/133mA		
H1224S-2WR3			24V/83mA		
H1503S-2WR3	2W	15V (13.5V-16.5V)	3.3V/606mA	81	6000VDC (SIP)
H1505S-2WR3			5V/400mA	86	
H1509S-2WR3			9V/222mA	87	
H1512S-2WR3			12V/166mA	88	
H1515S-2WR3			15V/133mA		
H1524S-2WR3			24V/83mA		
H2403S-2WR3	2W	24V (21.6V-26.4V)	3.3V/606mA	81	6000VDC (SIP)
H2405S-2WR3			5V/400mA	86	
H2409S-2WR3			9V/222mA	87	
H2412S-2WR3			12V/166mA	88	
H2415S-2WR3			15V/133mA		
H2424S-2WR3			24V/83mA		
Appearance size: L×W×H 19.5*9.8*12mm					

G_S-1WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
G0303S-1WR3	1W	3.3V (2.97V-3.63V)	± 3.3V/± 152mA	76	6000VDC (SIP)
G0305S-1WR3			± 5V/± 100mA	86	
G0309S-1WR3			± 9V/± 56mA	87	
G0312S-1WR3			± 12V/± 42mA		
G0315S-1WR3			± 15V/± 34mA		
G0324S-1WR3			± 24V/± 21mA		
G0503S-1WR3	1W	5V (4.5V-5.5V)	± 3.3V/± 152mA	76	6000VDC (SIP)
G0505S-1WR3			± 5V/± 100mA	86	
G0509S-1WR3			± 9V/± 56mA	87	
G0512S-1WR3			± 12V/± 42mA		
G0515S-1WR3			± 15V/± 34mA		
G0524S-1WR3			± 24V/± 21mA		
G0903S-1WR3	1W	9V (8.1V-9.9V)	± 3.3V/± 152mA	76	6000VDC (SIP)
G0905S-1WR3			± 5V/± 100mA	86	
G0909S-1WR3			± 9V/± 56mA	87	
G0912S-1WR3			± 12V/± 42mA		
G0915S-1WR3			± 15V/± 34mA		
G0924S-1WR3			± 24V/± 21mA		
G1203S-1WR3	1W	12V (10.8V-13.2V)	± 3.3V/± 152mA	76	6000VDC (SIP)
G1205S-1WR3			± 5V/± 100mA	86	
G1209S-1WR3			± 9V/± 56mA	87	
G1212S-1WR3			± 12V/± 42mA		
G1215S-1WR3			± 15V/± 34mA		
G1224S-1WR3			± 24V/± 21mA		
G1503S-1WR3	1W	15V (13.5V-16.5V)	± 3.3V/± 152mA	76	6000VDC (SIP)
G1505S-1WR3			± 5V/± 100mA	86	
G1509S-1WR3			± 9V/± 56mA	87	
G1512S-1WR3			± 12V/± 42mA		
G1515S-1WR3			± 15V/± 34mA		
G1524S-1WR3			± 24V/± 21mA		
G2403S-1WR3	1W	24V (21.6V-26.4V)	± 3.3V/± 152mA	76	6000VDC (SIP)
G2405S-1WR3			± 5V/± 100mA	86	
G2409S-1WR3			± 9V/± 56mA	87	
G2412S-1WR3			± 12V/± 42mA		
G2415S-1WR3			± 15V/± 34mA		
G2424S-1WR3			± 24V/± 21mA		
Appearance size: L×W×H 19.5*9.8*12mm					

G_S-2WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
G0303S-2WR3	2W	3.3V (2.97V-3.63V)	±3.3V/±303mA	76	6000VDC (SIP)
G0305S-2WR3			±5V/±200mA	86	
G0309S-2WR3			±9V/±112mA	87	
G0312S-2WR3			±12V/±84mA		
G0315S-2WR3			±15V/±67mA		
G0324S-2WR3			±24V/±42mA		
G0503S-2WR3	2W	5V (4.75V-5.25V)	±3.3V/±303mA	76	6000VDC (SIP)
G0505S-2WR3			±5V/±200mA	86	
G0509S-2WR3			±9V/±112mA	87	
G0512S-2WR3			±12V/±84mA		
G0515S-2WR3			±15V/±67mA		
G0524S-2WR3			±24V/±42mA		
G0903S-2WR3	2W	9V (8.1V-9.9V)	±3.3V/±303mA	76	6000VDC (SIP)
G0905S-2WR3			±5V/±200mA	86	
G0909S-2WR3			±9V/±112mA	87	
G0912S-2WR3			±12V/±84mA		
G0915S-2WR3			±15V/±67mA		
G0924S-2WR3			±24V/±42mA		
G1203S-2WR3	2W	12V (10.8V-13.2V)	±3.3V/±303mA	76	6000VDC (SIP)
G1205S-2WR3			±5V/±200mA	86	
G1209S-2WR3			±9V/±112mA	87	
G1212S-2WR3			±12V/±84mA		
G1215S-2WR3			±15V/±67mA		
G1224S-2WR3			±24V/±42mA		
G1503S-2WR3	2W	15V (13.5V-16.5V)	±3.3V/±303mA	76	6000VDC (SIP)
G1505S-2WR3			±5V/±200mA	86	
G1509S-2WR3			±9V/±112mA	87	
G1512S-2WR3			±12V/±84mA		
G1515S-2WR3			±15V/±67mA		
G1524S-2WR3			±24V/±42mA		
G2403S-2WR3	2W	24V (21.6V-26.4V)	±3.3V/±303mA	76	6000VDC (SIP)
G2405S-2WR3			±5V/±200mA	86	
G2409S-2WR3			±9V/±112mA	87	
G2412S-2WR3			±12V/±84mA		
G2415S-2WR3			±15V/±67mA		
G2424S-2WR3			±24V/±42mA		
Appearance size: L×W×H 19.5*9.8*12mm					

*The above is only parts of standard models. If you need other models, please contact our sales team.

WR(A)B_S/UR(A)B_S Series(3-6W)

Wide voltage input, Isolated stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Wide voltage input, isolated stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Input and output safety isolation, isolation voltage 1500VDC
- Output short-circuit protection sustainable short-circuit protection, automatic recovery
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



WRA (B) _S-3WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
WRA0503S-3WR3	3W	5V (4.5V-9V)	± 3.3V/±455mA	69	1500VDC (SIP)
WRA0505S-3WR3			± 5V/± 300mA	70	
WRA0512S-3WR3			± 12V/± 125mA	72	
WRA0515S-3WR3			± 15V/± 100mA		
WRA0524S-3WR3			± 24V/± 62mA		
WRB0503S-3WR3	3W	5V (4.5V-9V)	3.3V/909mA	69	1500VDC (SIP)
WRB0505S-3WR3			5V/600mA	70	
WRB0512S-3WR3			12V/250mA	72	
WRB0515S-3WR3			15V/200mA		
WRB0524S-3WR3			24V/125mA		
WRA1203S-3WR3	3W	12V (9V-18V)	± 3.3V/±455mA	69	1500VDC (SIP)
WRA1205S-3WR3			± 5V/± 300mA	76	
WRA1212S-3WR3			± 12V/± 125mA	78	
WRA1215S-3WR3			± 15V/± 100mA		
WRA1224S-3WR3			± 24V/± 62mA		
WRB1203S-3WR3	3W	12V (9V-18V)	3.3V/909mA	69	1500VDC (SIP)
WRB1205S-3WR3			5V/600mA	76	
WRB1212S-3WR3			12V/250mA	78	
WRB1215S-3WR3			15V/200mA		
WRB1224S-3WR3			24V/125mA	76	
WRA2403S-3WR3	3W	24V (18V-36V)	± 3.3V/±455mA	69	1500VDC (SIP)
WRA2405S-3WR3			± 5V/± 300mA	76	
WRA2412S-3WR3			± 12V/± 125mA	78	
WRA2415S-3WR3			± 15V/± 100mA		
WRA2424S-3WR3			± 24V/± 62mA		
WRB2403S-3WR3	3W	24V (18V-36V)	3.3V/600mA	69	1500VDC (SIP)
WRB2405S-3WR3			5V/600mA	76	
WRB2412S-3WR3			12V/250mA	78	
WRB2415S-3WR3			15V/200mA		
WRB2424S-3WR3			24V/125mA	76	
WRA4803S-3WR3	3W	48V (36V-72V)	± 3.3V/±455mA	69	1500VDC (SIP)
WRA4805S-3WR3			± 5V/± 300mA	76	
WRA4812S-3WR3			± 12V/± 125mA	78	
WRA4815S-3WR3			± 15V/± 100mA		
WRA4824S-3WR3			± 24V/± 62mA		
WRB4803S-3WR3	3W	48V (36V-72V)	3.3V/909mA	69	1500VDC (SIP)
WRB4805S-3WR3			5V/600mA	76	
WRB4812S-3WR3			12V/250mA	78	
WRB4815S-3WR3			15V/200mA		
WRB4824S-3WR3			24V/125mA		
Appearance size: L×W×H 22*9.5*12mm					

URA (B) _S-3WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage	
URA1203S-3WR3	3W	12V (4.5V-18V)	±3.3V/±455mA	72	1500VDC (SIP)	
URA1205S-3WR3			±5V/±300mA	76		
URA1209S-3WR3			±9V/±167mA	78		
URA1212S-3WR3			±12V/±125mA			
URA1215S-3WR3			±15V/±100mA			
URA1224S-3WR3	3W	12V (4.5V-18V)	±24V/±62mA	72	1500VDC (SIP)	
URB1203S-3WR3			3.3V/909mA			
URB1205S-3WR3			5V/600mA			
URB1209S-3WR3			9V/333mA	78		
URB1212S-3WR3			12V/250mA			
URB1215S-3WR3	15V/200mA					
URB1224S-3WR3	3W	12V (4.5V-18V)	24V/125mA	72	1500VDC (SIP)	
URA2403S-3WR3			±3.3V/±455mA			72
URA2405S-3WR3			±5V/±300mA			77
URA2409S-3WR3			±9V/±167mA	78		
URA2412S-3WR3			±12V/±125mA			
URA2415S-3WR3	±15V/±100mA					
URA2424S-3WR3	3W	24V (9V-36V)	±24V/±62mA	79	1500VDC (SIP)	
URB2403S-3WR3			3.3V/909mA			73
URB2405S-3WR3			5V/600mA			78
URB2409S-3WR3			9V/333mA	79		
URB2412S-3WR3			12V/250mA			
URB2415S-3WR3	15V/200mA					
URB2424S-3WR3	3W	24V (9V-36V)	24V/125mA	73	1500VDC (SIP)	
URA4803S-3WR3			±3.3V/±455mA			69
URA4805S-3WR3			±5V/±300mA			76
URA4809S-3WR3			±9V/±167mA	78		
URA4812S-3WR3			±12V/±125mA			
URA4815S-3WR3	±15V/±100mA					
URA4824S-3WR3	3W	48V (18V-75V)	±24V/±62mA	72	1500VDC (SIP)	
URB4803S-3WR3			3.3V/909mA			72
URB4805S-3WR3			5V/600mA			76
URB4809S-3WR3			9V/333mA	78		
URB4812S-3WR3			12V/250mA			
URB4815S-3WR3	15V/200mA					
URB4824S-3WR3	3W	48V (18V-75V)	24V/125mA	78	1500VDC (SIP)	
Appearance size: L×W×H 22*9.5*12mm						

URA (B) _S-6WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2403S-6WR3	6W	24V (9V-36V)	±3.3V/±625mA	76	1500VDC (SIP)
URA2405S-6WR3			±5V/±600mA	80	
URA2409S-6WR3			±9V/±333mA	83	
URA2412S-6WR3			±12V/±250mA	84	
URA2415S-6WR3			±15V/±200mA	85	
URA2424S-6WR3			±24V/±125mA		
URB2403S-6WR3	6W	24V (9V-36V)	3.3V/1350mA	76	1500VDC (SIP)
URB2405S-6WR3			5V/1200mA	80	
URB2409S-6WR3			9V/667mA	83	
URB2412S-6WR3			12V/500mA	84	
URB2415S-6WR3			15V/400mA	85	
URB2424S-6WR3			24V/250mA		
URA4803S-6WR3	6W	48V (18V-75V)	±3.3V/±625mA	76	1500VDC (SIP)
URA4805S-6WR3			±5V/±600mA	80	
URA4809S-6WR3			±9V/±333mA	83	
URA4812S-6WR3			±12V/±250mA	84	
URA4815S-6WR3			±15V/±200mA	85	
URA4824S-6WR3			±24V/±125mA		
URB4803S-6WR3	6W	48V (18V-75V)	3.3V/1350mA	76	1500VDC (SIP)
URB4805S-6WR3			5V/1200mA	80	
URB4809S-6WR3			9V/667mA	83	
URB4812S-6WR3			12V/500mA	84	
URB4815S-6WR3			15V/400mA	85	
URB2424S-6WR3			24V/250mA		
Appearance size: L×W×H 22*9.5*12mm					

*The above is only parts of standard models. If you need other models, please contact our sales team.

VR(A)B_YMD/UR(A)B_YMD Series(5-15W)

Wide voltage input, Isolated stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Wide voltage input, isolated stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Input and output safety isolation, isolation voltage 1500VDC
- Input undervoltage, output short circuit, over-current, over-voltage protection
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



VRA (B) _YMD-5WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
VRA1205YMD-5WR3	5W	12V (9V-18V)	±5V/±500mA	76	1500VDC (DIP)
VRA1212YMD-5WR3			±12V/±208mA	78	
VRA1215YMD-5WR3			±15V/±167mA	79	
VRA1224YMD-5WR3			±24V/±104mA	81	
VRB1203YMD-5WR3	5W	12V (9V-18V)	3.3V/1200mA	75	1500VDC (DIP)
VRB1205YMD-5WR3			5V/1000mA	76	
VRB1212YMD-5WR3			12V/416mA	78	
VRB1215YMD-5WR3			15V/333mA	79	
VRB1224YMD-5WR3	5W	24V (18V-36V)	24V/208mA	81	1500VDC (DIP)
VRA2405YMD-5WR3			±5V/±500mA	76	
VRA2412YMD-5WR3			±12V/±208mA	80	
VRA2415YMD-5WR3			±15V/±167mA	80	
VRA2424YMD-5WR3	5W	24V (18V-36V)	±24V/±104mA	82	1500VDC (DIP)
VRB2403YMD-5WR3			3.3V/1200mA	75	
VRB2405YMD-5WR3			5V/1000mA	76	
VRB2412YMD-5WR3			12V/416mA	80	
VRB2415YMD-5WR3	5W	48V (36V-72V)	15V/333mA	80	1500VDC (DIP)
VRB2424YMD-5WR3			24V/208mA	82	
VRA4805YMD-5WR3	5W	48V (36V-72V)	±5V/±500mA	76	1500VDC (DIP)
VRA4812YMD-5WR3			±12V/±208mA	80	
VRA4815YMD-5WR3			±15V/±167mA	80	
VRA4824YMD-5WR3			±24V/±104mA	82	
VRB4803YMD-5WR3	5W	48V (36V-72V)	3.3V/1200mA	75	1500VDC (DIP)
VRB4805YMD-5WR3			5V/1000mA	76	
VRB4812YMD-5WR3			12V/416mA	80	
VRB4815YMD-5WR3			15V/333mA	80	
VRB4824YMD-5WR3	5W	110V (72V-144V)	24V/208mA	82	1500VDC (DIP)
VRA1D05YMD-5WR3			±5V/±500mA	76	
VRA1D12YMD-5WR3			±12V/±208mA	80	
VRA1D15YMD-5WR3			±15V/±167mA	80	
VRA1D24YMD-5WR3	5W	110V (72V-144V)	±24V/±104mA	82	1500VDC (DIP)
VRB1D03YMD-5WR3			3.3V/1200mA	75	
VRB1D05YMD-5WR3			5V/1000mA	76	
VRB1D12YMD-5WR3			12V/416mA	80	
VRB1D15YMD-5WR3	5W	110V (72V-144V)	15V/333mA	80	1500VDC (DIP)
VRB1D24YMD-5WR3			24V/208mA	82	
Appearance size: L×W×H 25.4*25.4*11mm					

URA (B) _YMD-5WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2405YMD-5WR3	5W	24V (9V-36V)	±5V/±500mA	83	1500VDC (DIP)
URA2412YMD-5WR3			±12V/±208mA	86	
URA2415YMD-5WR3			±15V/±167mA	88	
URA2424YMD-5WR3			±24V/±104mA		
URB2403YMD-5WR3	5W	24V (9V-36V)	3.3V/1200mA	80	1500VDC (DIP)
URB2405YMD-5WR3			5V/1000mA	83	
URB2412YMD-5WR3			12V/416mA	87	
URB2415YMD-5WR3			15V/333mA	88	
URB2424YMD-5WR3			24V/208mA		
URA4805YMD-5WR3	5W	48V (18V-75V)	±5V/±500mA	83	1500VDC (DIP)
URA4812YMD-5WR3			±12V/±208mA	86	
URA4815YMD-5WR3			±15V/±167mA	88	
URA4824YMD-5WR3			±24V/±104mA		
URB4803YMD-5WR3	5W	48V (18V-75V)	3.3V/1200mA	80	1500VDC (DIP)
URB4805YMD-5WR3			5V/1000mA	83	
URB4812YMD-5WR3			12V/416mA	87	
URB4815YMD-5WR3			15V/333mA	88	
URB4824YMD-5WR3			24V/208mA		
URA1D05YMD-5WR3	5W	110V (40V-160V)	±5V/±500mA	83	1500VDC (DIP)
URA1D12YMD-5WR3			±12V/±208mA	86	
URA1D15YMD-5WR3			±15V/±167mA	88	
URA1D24YMD-5WR3			±24V/±104mA		
URB1D03YMD-5WR3	5W	110V (40V-160V)	3.3V/1200mA	80	1500VDC (DIP)
URB1D05YMD-5WR3			5V/1000mA	83	
URB1D12YMD-5WR3			12V/416mA	87	
URB1D15YMD-5WR3			15V/333mA	88	
URB1D24YMD-5WR3			24V/208mA		
Appearance size: L×W×H 25.4*25.4*11mm					

VRA (B) _YMD-6WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
VRA1205YMD-6WR3	6W	12V (9V-18V)	±5V/±600mA	76	1500VDC (DIP)
VRA1212YMD-6WR3			±12V/±250mA	78	
VRA1215YMD-6WR3			±15V/±200mA	79	
VRA1224YMD-6WR3			±24V/±125mA	81	
VRB1203YMD-6WR3	6W	12V (9V-18V)	3.3V/1800mA	75	1500VDC (DIP)
VRB1205YMD-6WR3			5V/1200mA	76	
VRB1212YMD-6WR3			12V/500mA	78	
VRB1215YMD-6WR3			15V/400mA	79	
VRB1224YMD-6WR3			24V/250mA	81	
VRA2405YMD-6WR3	6W	24V (18V-36V)	±5V/±600mA	76	1500VDC (DIP)
VRA2412YMD-6WR3			±12V/±250mA	80	
VRA2415YMD-6WR3			±15V/±200mA		
VRA2424YMD-6WR3			±24V/±125mA	82	
VRB2403YMD-6WR3	6W	24V (18V-36V)	3.3V/1800mA	75	1500VDC (DIP)
VRB2405YMD-6WR3			5V/1200mA	76	
VRB2412YMD-6WR3			12V/500mA	80	
VRB2415YMD-6WR3			15V/400mA		
VRB2424YMD-6WR3			24V/250mA	82	
VRA4805YMD-6WR3	6W	48V (36V-72V)	±5V/±600mA	76	1500VDC (DIP)
VRA4812YMD-6WR3			±12V/±250mA	80	
VRA4815YMD-6WR3			±15V/±200mA		
VRA4824YMD-6WR3			±24V/±125mA	82	
VRB4803YMD-6WR3	6W	48V (36V-72V)	3.3V/1800mA	75	1500VDC (DIP)
VRB4805YMD-6WR3			5V/1200mA	76	
VRB4812YMD-6WR3			12V/500mA	80	
VRB4815YMD-6WR3			15V/400mA		
VRB4824YMD-6WR3			24V/250mA	82	
VRA1D05YMD-6WR3	6W	110V (72V-144V)	±5V/±600mA	76	1500VDC (DIP)
VRA1D12YMD-6WR3			±12V/±250mA	80	
VRA1D15YMD-6WR3			±15V/±200mA		
VRA1D24YMD-6WR3			±24V/±125mA	82	
VRB1D03YMD-6WR3	6W	110V (72V-144V)	3.3V/1800mA	75	1500VDC (DIP)
VRB1D05YMD-6WR3			5V/1200mA	76	
VRB1D12YMD-6WR3			12V/500mA	80	
VRB1D15YMD-6WR3			15V/400mA		
VRB1D24YMD-6WR3			24V/250mA	82	
Appearance size: L×W×H 25.4*25.4*11mm					

Appearance size: L×W×H 25.4*25.4*11mm

URA (B) _YMD-6WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2403YMD-6WR3	6W	24V (9V-36V)	± 3.3V/± 909mA	80	1500VDC (DIP)
URA2405YMD-6WR3			± 5V/± 600mA	83	
URA2409YMD-6WR3			± 9V/± 333mA	86	
URA2412YMD-6WR3			± 12V/± 250mA		
URA2415YMD-6WR3			± 15V/± 200mA	88	
URA2424YMD-6WR3			± 24V/± 125mA	89	
URB2403YMD-6WR3	6W	24V (9V-36V)	3.3V/1400mA	80	1500VDC (DIP)
URB2405YMD-6WR3			5V/1200mA	83	
URB2409YMD-6WR3			9V/667mA	87	
URB2412YMD-6WR3			12V/500mA		
URB2415YMD-6WR3			15V/400mA	88	
URB2424YMD-6WR3			24V/250mA	89	
URA4803YMD-6WR3	6W	48V (18V-75V)	± 3.3V/± 909mA	80	1500VDC (DIP)
URA4805YMD-6WR3			± 5V/± 600mA	83	
URA4809YMD-6WR3			± 9V/± 333mA	86	
URA4812YMD-6WR3			± 12V/± 250mA		
URA4815YMD-6WR3			± 15V/± 200mA	88	
URA4824YMD-6WR3			± 24V/± 125mA	89	
URB4803YMD-6WR3	6W	48V (18V-75V)	3.3V/1400mA	80	1500VDC (DIP)
URB4805YMD-6WR3			5V/1200mA	83	
URB4809YMD-6WR3			9V/667mA	87	
URB4812YMD-6WR3			12V/500mA		
URB4815YMD-6WR3			15V/400mA	88	
URB4824YMD-6WR3			24V/250mA	89	
URA1D03YMD-6WR3	6W	110V (40V-160V)	± 3.3V/± 909mA	80	1500VDC (DIP)
URA1D05YMD-6WR3			± 5V/± 600mA	83	
URA1D09YMD-6WR3			± 9V/± 333mA	86	
URA1D12YMD-6WR3			± 12V/± 250mA		
URA1D15YMD-6WR3			± 15V/± 200mA	88	
URA1D24YMD-6WR3			± 24V/± 125mA	89	
URB1D03YMD-6WR3	6W	110V (40V-160V)	3.3V/1400mA	80	1500VDC (DIP)
URB1D05YMD-6WR3			5V/1200mA	83	
URB1D09YMD-6WR3			9V/667mA	87	
URB1D12YMD-6WR3			12V/500mA		
URB1D15YMD-6WR3			15V/400mA	88	
URB1D24YMD-6WR3			24V/250mA	89	

Appearance size: L×W×H 25.4*25.4*11mm

VRA (B) _YMD-10WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
VRA1205YMD-10WR3	10W	12V (9V-18V)	$\pm 5V/\pm 1000mA$	83	1500VDC (DIP)
VRA1212YMD-10WR3			$\pm 12V/\pm 416mA$	86	
VRA1215YMD-10WR3			$\pm 15V/\pm 333mA$	88	
VRA1224YMD-10WR3			$\pm 24V/\pm 208mA$	89	
VRB1203YMD-10WR3	10W	12V (9V-18V)	3.3V/2400mA	80	1500VDC (DIP)
VRB1205YMD-10WR3			5V/2000mA	83	
VRB1212YMD-10WR3			12V/833mA	87	
VRB1215YMD-10WR3			15V/666mA	88	
VRB1224YMD-10WR3	10W	24V (18V-36V)	24V/416mA	89	1500VDC (DIP)
VRA2405YMD-10WR3			$\pm 5V/\pm 1000mA$	83	
VRA2412YMD-10WR3			$\pm 12V/\pm 416mA$	86	
VRA2415YMD-10WR3			$\pm 15V/\pm 333mA$	88	
VRA2424YMD-10WR3			$\pm 24V/\pm 208mA$	89	
VRB2403YMD-10WR3	10W	24V (18V-36V)	3.3V/2400mA	80	1500VDC (DIP)
VRB2405YMD-10WR3			5V/2000mA	83	
VRB2412YMD-10WR3			12V/833mA	87	
VRB2415YMD-10WR3			15V/666mA	88	
VRB2424YMD-10WR3	10W	48V (36V-72V)	24V/416mA	89	1500VDC (DIP)
VRA4805YMD-10WR3			$\pm 5V/\pm 1000mA$	83	
VRA4812YMD-10WR3			$\pm 12V/\pm 416mA$	86	
VRA4815YMD-10WR3			$\pm 15V/\pm 333mA$	88	
VRA4824YMD-10WR3			$\pm 24V/\pm 208mA$	89	
VRB4803YMD-10WR3	10W	48V (36V-72V)	3.3V/2400mA	80	1500VDC (DIP)
VRB4805YMD-10WR3			5V/2000mA	83	
VRB4812YMD-10WR3			12V/833mA	87	
VRB4815YMD-10WR3			15V/666mA	88	
VRB4824YMD-10WR3	10W	110V (72V-144V)	24V/416mA	89	1500VDC (DIP)
VRA1D05YMD-10WR3			$\pm 5V/\pm 1000mA$	83	
VRA1D12YMD-10WR3			$\pm 12V/\pm 416mA$	86	
VRA1D15YMD-10WR3			$\pm 15V/\pm 333mA$	88	
VRA1D24YMD-10WR3	10W	110V (72V-114V)	$\pm 24V/\pm 208mA$	89	1500VDC (DIP)
VRB1D03YMD-10WR3			3.3V/2400mA	80	
VRB1D05YMD-10WR3			5V/2000mA	83	
VRB1D12YMD-10WR3			12V/833mA	87	
VRB1D15YMD-10WR3	10W		15V/666mA	88	
VRB1D24YMD-10WR3			24V/416mA	89	

Appearance size: L×W×H 25.4*25.4*11mm

URA (B) _YMD-10WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2403YMD-10WR3	10W	24V (9V-36V)	±3.3V/±1500mA	80	1500VDC (DIP)
URA2405YMD-10WR3			±5V/±1000mA	83	
URA2409YMD-10WR3			±9V/±555mA	86	
URA2412YMD-10WR3			±12V/±416mA		
URA2415YMD-10WR3			±15V/±333mA	88	
URA2424YMD-10WR3			±24V/±208mA	89	
URB2403YMD-10WR3	10W	24V (9V-36V)	3.3V/2400mA	80	1500VDC (DIP)
URB2405YMD-10WR3			5V/2000mA	83	
URB2409YMD-10WR3			9V/1111mA	87	
URB2412YMD-10WR3			12V/833mA		
URB2415YMD-10WR3			15V/666mA	88	
URB2424YMD-10WR3			24V/416mA	89	
URA4803YMD-10WR3	10W	48V (18V-75V)	±3.3V/±1500mA	80	1500VDC (DIP)
URA4805YMD-10WR3			±5V/±1000mA	83	
URA4809YMD-10WR3			±9V/±333mA	86	
URA4812YMD-10WR3			±12V/±416mA		
URA4815YMD-10WR3			±15V/±333mA	88	
URA4824YMD-10WR3			±24V/±208mA	89	
URB4803YMD-10WR3	10W	48V (18V-75V)	3.3V/2400mA	80	1500VDC (DIP)
URB4805YMD-10WR3			5V/2000mA	83	
URB4809YMD-10WR3			9V/1111mA	87	
URB4812YMD-10WR3			12V/833mA		
URB4815YMD-10WR3			15V/666mA	88	
URB4824YMD-10WR3			24V/416mA	89	
URA1D03YMD-10WR3	10W	110V (40V-160V)	±3.3V/±1500mA	80	1500VDC (DIP)
URA1D05YMD-10WR3			±5V/±1000mA	83	
URA1D09YMD-10WR3			±9V/±555mA	86	
URA1D12YMD-10WR3			±12V/±416mA		
URA1D15YMD-10WR3			±15V/±333mA	88	
URA1D24YMD-10WR3			±24V/±208mA	89	
URB1D03YMD-10WR3	10W	110V (40V-160V)	3.3V/2400mA	80	1500VDC (DIP)
URB1D05YMD-10WR3			5V/2000mA	83	
URB1D09YMD-10WR3			9V/1111mA	87	
URB1D12YMD-10WR3			12V/833mA		
URB1D15YMD-10WR3			15V/666mA	88	
URB1D24YMD-10WR3			24V/416mA	89	
Appearance size: L×W×H25.4*25.4*11mm					

Appearance size: L×W×H 25.4*25.4*11mm

URA (B) _YMD-12WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2405YMD-12WR3	12W	24V (9V-36V)	±5V/±1200mA	83	1500VDC (DIP)
URA2412YMD-12WR3			±12V/±500mA	86	
URA2415YMD-12WR3			±15V/±400mA	88	
URA2424YMD-12WR3			±24V/±250mA	89	
URB2403YMD-12WR3	12W	24V (9V-36V)	3.3V/3000mA	80	1500VDC (DIP)
URB2405YMD-12WR3			5V/2400mA	83	
URB2412YMD-12WR3			12V/1000mA	87	
URB2415YMD-12WR3			15V/800mA	88	
URB2424YMD-12WR3			24V/500mA	89	
URA4805YMD-12WR3	12W	48V (18V-75V)	±5V/±1200mA	83	1500VDC (DIP)
URA4812YMD-12WR3			±12V/±500mA	86	
URA4815YMD-12WR3			±15V/±400mA	88	
URA4824YMD-12WR3			±24V/±250mA	89	
URB4803YMD-12WR3	12W	48V (18V-75V)	3.3V/3000mA	80	1500VDC (DIP)
URB4805YMD-12WR3			5V/2400mA	83	
URB4812YMD-12WR3			12V/1000mA	87	
URB4815YMD-12WR3			15V/800mA	88	
URB4824YMD-12WR3			24V/500mA	89	
URA1D05YMD-12WR3	12W	110V (40V-160V)	±5V/±1200mA	83	1500VDC (DIP)
URA1D12YMD-12WR3			±12V/±500mA	86	
URA1D15YMD-12WR3			±15V/±400mA	88	
URA1D24YMD-12WR3			±24V/±250mA	89	
URB1D03YMD-12WR3	12W	110V (40V-160V)	3.3V/3000mA	80	1500VDC (DIP)
URB1D05YMD-12WR3			5V/2400mA	83	
URB1D12YMD-12WR3			12V/1000mA	87	
URB1D15YMD-12WR3			15V/800mA	88	
URB1D24YMD-12WR3			24V/500mA	89	
Appearance size: L×W×H25.4*25.4*11mm					

*The above is only parts of standard models. If you need other models, please contact our sales team.

URA (B) _YMD-15WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2403YMD-15WR3	15W	24V (9V-36V)	±3.3V/±2270mA	85	1500VDC (DIP)
URA2405YMD-15WR3			±5V/±1500mA		
URA2409YMD-15WR3			±9V/±833mA	86	
URA2412YMD-15WR3			±12V/±625mA		
URA2415YMD-15WR3			±15V/±500mA	88	
URA2424YMD-15WR3			±24V/±313mA		
URB2403YMD-15WR3	15W	24V (9V-36V)	3.3V/4000mA	86	1500VDC (DIP)
URB2405YMD-15WR3			5V/3000mA	88	
URB2409YMD-15WR3			9V/1700mA		
URB2412YMD-15WR3			12V/1250mA	89	
URB2415YMD-15WR3			15V/1000mA		
URB2424YMD-15WR3			24V/625mA		
URA4803YMD-15WR3	15W	48V (18V-75V)	±3.3V/±2270mA	85	1500VDC (DIP)
URA4805YMD-15WR3			±5V/±1500mA		
URA4809YMD-15WR3			±9V/±833mA	86	
URA4812YMD-15WR3			±12V/±625mA		
URA4815YMD-15WR3			±15V/±500mA	88	
URA4824YMD-15WR3			±24V/±313mA		
URB4803YMD-15WR3	15W	48V (18V-75V)	3.3V/4000mA	86	1500VDC (DIP)
URB4805YMD-15WR3			5V/3000mA	88	
URB2409YMD-15WR3			9V/1700mA		
URB4812YMD-15WR3			12V/1250mA	89	
URB4815YMD-15WR3			15V/1000mA		
URB4824YMD-15WR3			24V/625mA		
Appearance size: L×W×H25.4*25.4*11mm					

VR(A)B_ZP/UR(A)B_ZP Series(6-10W)

Wide voltage input, Isolated stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Wide voltage input, isolated stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Input and output safety isolation, isolation voltage 1500VDC
- Input undervoltage, output short circuit, over-current, over-voltage protection
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



VRA (B) _ZP-6WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency %(Typ)	Isolation voltage
VRA0505ZP-6WR3	6W	5V (4.5V-9V)	±5V/±600mA	76	1500VDC (DIP)
VRA0512ZP-6WR3			±12V/±250mA	82	
VRA0515ZP-6WR3			±15V/±200mA		
VRA0524ZP-6WR3			±24V/±125mA		
VRB0505ZP-6WR3	6W	5V (4.5V-9V)	5V/1200mA	76	1500VDC (DIP)
VRB0512ZP-6WR3			12V/500mA	82	
VRB0515ZP-6WR3			15V/400mA		
VRB0524ZP-6WR3			24V/250mA		
VRA1205ZP-6WR3	6W	12V (9V-18V)	±5V/±600mA	83	1500VDC (DIP)
VRA1212ZP-6WR3			±12V/±250mA	86	
VRA1215ZP-6WR3			±15V/±200mA	88	
VRA1224ZP-6WR3			±24V/±125mA	89	
VRB1203ZP-6WR3	6W	12V (9V-18V)	3.3V/1400mA	80	1500VDC (DIP)
VRB1205ZP-6WR3			5V/1200mA	83	
VRB1212ZP-6WR3			12V/500mA	87	
VRB1215ZP-6WR3			15V/400mA	88	
VRB1224ZP-6WR3	6W	12V (9V-18V)	24V/250mA	89	1500VDC (DIP)
VRA2405ZP-6WR3			±5V/±600mA	83	
VRA2412ZP-6WR3			±12V/±250mA	86	
VRA2415ZP-6WR3			±15V/±200mA	88	
VRA2424ZP-6WR3	6W	24V (18V-36V)	±24V/±125mA	89	1500VDC (DIP)
VRB2403ZP-6WR3			3.3V/1400mA	80	
VRB2405ZP-6WR3			5V/1200mA	83	
VRB2412ZP-6WR3			12V/500mA	87	
VRB2415ZP-6WR3	6W	24V (18V-36V)	15V/400mA	88	1500VDC (DIP)
VRB2424ZP-6WR3			24V/250mA	89	
VRA4805ZP-6WR3			±5V/±600mA	83	
VRA4812ZP-6WR3			±12V/±250mA	86	
VRA4815ZP-6WR3	6W	48V (36V-75V)	±15V/±200mA	88	1500VDC (DIP)
VRA4824ZP-6WR3			±24V/±125mA	89	
VRB4803ZP-6WR3			3.3V/1400mA	80	
VRB4805ZP-6WR3			5V/1200mA	83	
VRB4812ZP-6WR3	6W	48V (36V-75V)	12V/500mA	87	1500VDC (DIP)
VRB4815ZP-6WR3			15V/400mA	88	
VRB4824ZP-6WR3			24V/250mA	89	
VRA1D05ZP-6WR3			6W	110V (72V-144V)	
VRA1D12ZP-6WR3	±12V/±250mA	86			
VRA1D15ZP-6WR3	±15V/±200mA	88			
VRA1D24ZP-6WR3	±24V/±125mA	89			
VRB1D03ZP-6WR3	6W	110V (72V-144V)	3.3V/1400mA	80	1500VDC (DIP)
VRB1D05ZP-6WR3			5V/1200mA	83	
VRB1D12ZP-6WR3			12V/500mA	87	
VRB1D15ZP-6WR3			15V/400mA	88	
VRB1D24ZP-6WR3	6W	110V (72V-144V)	24V/250mA	89	1500VDC (DIP)
VRB1D03ZP-6WR3			3.3V/1400mA	80	
VRB1D05ZP-6WR3			5V/1200mA	83	
VRB1D12ZP-6WR3			12V/500mA	87	
VRB1D15ZP-6WR3			15V/400mA	88	
VRB1D24ZP-6WR3			24V/250mA	89	
Appearance size: L×W×H 31.8*20.3*12mm					

Appearance size: L×W×H 31.8*20.3*12mm

URA (B) _ZP-6WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2405ZP-6WR3	6W	24V (9V-36V)	±5V/±600mA	83	1500VDC (DIP)
URA2412ZP-6WR3			±12V/±250mA	86	
URA2415ZP-6WR3			±15V/±200mA	88	
URA2424ZP-6WR3			±24V/±125mA	89	
URB2403ZP-6WR3	6W	24V (9V-36V)	3.3V/1400mA	80	1500VDC (DIP)
URB2405ZP-6WR3			5V/1200mA	83	
URB2412ZP-6WR3			12V/500mA	87	
URB2415ZP-6WR3			15V/400mA	88	
URA4805ZP-6WR3	6W	48V (18V-75V)	±5V/±600mA	83	1500VDC (DIP)
URA4812ZP-6WR3			±12V/±250mA	86	
URA4815ZP-6WR3			±15V/±200mA	88	
URA4824ZP-6WR3			±24V/±125mA	89	
URB4803ZP-6WR3	6W	48V (18V-75V)	3.3V/1400mA	80	1500VDC (DIP)
URB4805ZP-6WR3			5V/1200mA	83	
URB4812ZP-6WR3			12V/500mA	87	
URB4815ZP-6WR3			15V/400mA	88	
URA1105ZP-6WR3	6W	110V (40V-160V)	±5V/±600mA	83	1500VDC (DIP)
URA1112ZP-6WR3			±12V/±250mA	86	
URA1115ZP-6WR3			±15V/±200mA	88	
URA1124ZP-6WR3			±24V/±125mA	89	
URB1103ZP-6WR3	6W	110V (40V-160V)	3.3V/1400mA	80	1500VDC (DIP)
URB1105ZP-6WR3			5V/1200mA	83	
URB1112ZP-6WR3			12V/500mA	87	
URB1115ZP-6WR3			15V/400mA	88	
URB1124ZP-6WR3	6W	110V (40V-160V)	24V/250mA	89	1500VDC (DIP)
URB1103ZP-6WR3			3.3V/1400mA	80	
URB1105ZP-6WR3			5V/1200mA	83	
URB1112ZP-6WR3			12V/500mA	87	
URB1115ZP-6WR3			15V/400mA	88	
URB1124ZP-6WR3			24V/250mA	89	

Appearance size: L×W×H 31.8*20.3*12mm

VRA (B) _ZP-10WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
VRA1205ZP-10WR3	10W	12V (9V-18V)	±5V/±1000mA	81	1500VDC (DIP)
VRA1212ZP-10WR3			±12V/±416mA	85	
VRA1215ZP-10WR3			±15V/±333mA		
VRA1224ZP-10WR3			±24V/±208mA		
VRB1203ZP-10WR3	10W	12V (9V-18V)	3.3V/2400mA	85	1500VDC (DIP)
VRB1205ZP-10WR3			5V/2000mA		
VRB1212ZP-10WR3			12V/833mA		
VRB1215ZP-10WR3			15V/667mA		
VRB1224ZP-10WR3	10W	24V (18V-36V)	24V/416mA	86	1500VDC (DIP)
VRA2405ZP-10WR3			±5V/±1000mA	81	
VRA2412ZP-10WR3			±12V/±416mA	89	
VRA2415ZP-10WR3			±15V/±333mA		
VRA2424ZP-10WR3			±24V/±208mA		
VRB2403ZP-10WR3	10W	24V (18V-36V)	3.3V/2400mA	84	1500VDC (DIP)
VRB2405ZP-10WR3			5V/2000mA	86	
VRB2412ZP-10WR3			12V/833mA	85	
VRB2415ZP-10WR3			15V/666mA		
VRB2424ZP-10WR3			24V/416mA		
VRA4805ZP-10WR3	10W	48V (36V-75V)	±5V/±1000mA	81	1500VDC (DIP)
VRA4812ZP-10WR3			±12V/±416mA	85	
VRA4815ZP-10WR3			±15V/±333mA		
VRA4824ZP-10WR3			±24V/±208mA		
VRB4803ZP-10WR3	10W	48V (36V-75V)	3.3V/2400mA	85	1500VDC (DIP)
VRB4805ZP-10WR3			5V/2000mA	86	
VRB4812ZP-10WR3			12V/833mA	85	
VRB4815ZP-10WR3			15V/667mA		
VRB4824ZP-10WR3			24V/416mA		
Appearance size: L×W×H31.8*20.3*12mm					

Appearance size: L×W×H 31.8*20.3*12mm

URA (B) _ZP-10WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2405ZP-10WR3	10W	24V (9V-36V)	±5V/±1000mA	83	1500VDC (DIP)
URA2412ZP-10WR3			±12V/±416mA	86	
URA2415ZP-10WR3			±15V/±333mA	88	
URA2424ZP-10WR3			±24V/±208mA	89	
URB2403ZP-10WR3	10W	24V (9V-36V)	3.3V/2000mA	80	1500VDC (DIP)
URB2405ZP-10WR3			5V/2000mA	83	
URB2412ZP-10WR3			12V/833mA	87	
URB2415ZP-10WR3			15V/666mA	88	
URB2424ZP-10WR3	10W	48V (18V-75V)	24V/416mA	89	1500VDC (DIP)
URA4805ZP-10WR3			±5V/±1000mA	83	
URA4812ZP-10WR3			±12V/±416mA	86	
URA4815ZP-10WR3			±15V/±333mA	88	
URA4824ZP-10WR3			±24V/±208mA	89	
URB4803ZP-10WR3	10W	48V (18V-75V)	3.3V/2200mA	80	1500VDC (DIP)
URB4805ZP-10WR3			5V/1200mA	83	
URB4812ZP-10WR3			12V/833mA	87	
URB4815ZP-10WR3			15V/666mA	88	
URB4824ZP-10WR3	10W	110V (40V-160V)	24V/416mA	89	1500VDC (DIP)
URA1D05ZP-10WR3			±5V/±1000mA	83	
URA1D12ZP-10WR3			±12V/±416mA	86	
URA1D15ZP-10WR3			±15V/±333mA	88	
URA1D24ZP-10WR3			±24V/±208mA	89	
URB1D03ZP-10WR3	10W	110V (40V-160V)	3.3V/2000mA	80	1500VDC (DIP)
URB1D05ZP-10WR3			5V/2000mA	83	
URB1D12ZP-10WR3			12V/833mA	87	
URB1D15ZP-10WR3			15V/666mA	88	
URB1D24ZP-10WR3			24V/416mA	89	

Appearance size: L×W×H 31.8*20.3*12mm

*The above is only parts of standard models. If you need other models, please contact our sales team.

VR(A)B_LD/UR(A)B_LD Series(10-15W)

Wide voltage input, Isolated stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Wide voltage input, isolated stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Input and output safety isolation, isolation voltage 1500VDC
- Input undervoltage, output short circuit, over-current, over-voltage protection
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



VRA (B) _LD-10WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
VRA0505LD-10WR3	10W	5V (4.5V-9V)	±5V/±1000mA	76	1500VDC (DIP)
VRA0512LD-10WR3			±12V/±416mA	81	
VRA0515LD-10WR3			±15V/±333mA	82	
VRA0524LD-10WR3			±24V/±208mA	81	
VRB0505LD-10WR3	10W	5V (4.5V-9V)	5V/2000mA	83	1500VDC (DIP)
VRB0512LD-10WR3			12V/833mA	81	
VRB0515LD-10WR3			15V/666mA	82	
VRB0524LD-10WR3			24V/416mA	81	
VRA1205LD-10WR3	10W	12V (9V-18V)	±5V/±1000mA	76	1500VDC (DIP)
VRA1212LD-10WR3			±12V/±416mA	80	
VRA1215LD-10WR3			±15V/±333mA	81	
VRA1224LD-10WR3			±24V/±208mA	82	
VRB1203LD-10WR3	10W	12V (9V-18V)	3.3V/2000mA	75	1500VDC (DIP)
VRB1205LD-10WR3			5V/2000mA	76	
VRB1212LD-10WR3			12V/833mA	80	
VRB1215LD-10WR3			15V/666mA	81	
VRB1224LD-10WR3	10W	12V (9V-18V)	24V/416mA	82	1500VDC (DIP)
VRA2405LD-10WR3		24V (18V-36V)	±5V/±1000mA	76	
VRA2412LD-10WR3			±12V/±416mA	81	
VRA2415LD-10WR3			±15V/±333mA	83	
VRA2424LD-10WR3			±24V/±208mA	84	
VRB2403LD-10WR3	10W	24V (18V-36V)	3.3V/2000mA	75	1500VDC (DIP)
VRB2405LD-10WR3			5V/2000mA	76	
VRB2412LD-10WR3			12V/833mA	81	
VRB2415LD-10WR3			15V/666mA	83	
VRB2424LD-10WR3	10W	24V (18V-36V)	24V/416mA	84	1500VDC (DIP)
VRA4805LD-10WR3		48V (36V-75V)	±5V/±1000mA	76	
VRA4812LD-10WR3			±12V/±416mA	81	
VRA4815LD-10WR3			±15V/±333mA	83	
VRA4824LD-10WR3			±24V/±208mA	84	
VRB4803LD-10WR3	10W	48V (36V-75V)	3.3V/2000mA	75	1500VDC (DIP)
VRB4805LD-10WR3			5V/2000mA	76	
VRB4812LD-10WR3			12V/833mA	81	
VRB4815LD-10WR3			15V/666mA	83	
VRB4824LD-10WR3	10W	48V (36V-75V)	24V/416mA	84	1500VDC (DIP)
VRA1D05LD-10WR3		110V (72V-144V)	±5V/±1000mA	76	
VRA1D12LD-10WR3			±12V/±416mA	81	
VRA1D15LD-10WR3			±15V/±333mA	83	
VRA1D24LD-10WR3			±24V/±208mA	84	
VRB1D03LD-10WR3	10W	110V (72V-144V)	3.3V/2000mA	75	1500VDC (DIP)
VRB1D05LD-10WR3			5V/2000mA	76	
VRB1D12LD-10WR3			12V/833mA	81	
VRB1D15LD-10WR3			15V/666mA	83	
VRB1D24LD-10WR3	10W	110V (72V-144V)	24V/416mA	84	1500VDC (DIP)

Appearance size: L×W×H50.8*25.4*11mm

URA (B) _LD-10WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2405LD-10WR3	10W	24V (9V-36V)	±5V/±1000mA	83	1500VDC (DIP)
URA2412LD-10WR3			±12V/±416mA	86	
URA2415LD-10WR3			±15V/±333mA	88	
URA2424LD-10WR3			±24V/±208mA	89	
URB2403LD-10WR3	10W	24V (9V-36V)	3.3V/2400mA	80	1500VDC (DIP)
URB2405LD-10WR3			5V/2000mA	83	
URB2412LD-10WR3			12V/833mA	87	
URB2415LD-10WR3			15V/666mA	88	
URB2424LD-10WR3	10W	24V (18V-36V)	24V/416mA	89	1500VDC (DIP)
URA4805LD-10WR3		48V (18V-75V)	±5V/±1000mA	83	
URA4812LD-10WR3			±12V/±416mA	86	
URA4815LD-10WR3			±15V/±333mA	88	
URA4824LD-10WR3			±24V/±208mA	89	
URB4803LD-10WR3	10W	48V (18V-75V)	3.3V/2000mA	80	1500VDC (DIP)
URB4805LD-10WR3			5V/2000mA	83	
URB4812LD-10WR3			12V/833mA	87	
URB4815LD-10WR3			15V/666mA	88	
URB4824LD-10WR3	10W	48V (18V-75V)	24V/416mA	89	1500VDC (DIP)
URA1D05LD-10WR3		110V (40V-160V)	±5V/±1000mA	83	
URA1D12LD-10WR3			±12V/±416mA	86	
URA1D15LD-10WR3			±15V/±333mA	88	
URA1D24LD-10WR3			±24V/±208mA	89	
URB1D03LD-10WR3	10W	110V (40V-160V)	3.3V/2000mA	80	1500VDC (DIP)
URB1D05LD-10WR3			5V/2000mA	83	
URB1D12LD-10WR3			12V/833mA	87	
URB1D15LD-10WR3			15V/666mA	88	
URB1D24LD-10WR3	10W	110V (40V-160V)	24V/416mA	89	1500VDC (DIP)

Appearance size: L×W×H50.8*25.4*11mm

■ URA (B) _LD-12WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2403LD-12WR3	12W	24V (9V-36V)	±3.3V/±1800mA	80	1500VDC (DIP)
URA2405LD-12WR3			±5V/±1200mA	83	
URA2409LD-12WR3			±9V/±650mA	86	
URA2412LD-12WR3			±12V/±500mA		
URA2415LD-12WR3			±15V/±400mA	88	
URA2424LD-12WR3			±24V/±250mA	89	
URB2403LD-12WR3	12W	24V (9V-36V)	3.3V/3000mA	80	1500VDC (DIP)
URB2405LD-12WR3			5V/2400mA	83	
URB2409LD-12WR3			9V/1300mA	87	
URB2412LD-12WR3			12V/1000mA		
URB2415LD-12WR3			15V/800mA	88	
URB2424LD-12WR3			24V/500mA	89	
URA4803LD-12WR3	12W	48V (18V-75V)	±3.3V/±1800mA	80	1500VDC (DIP)
URA4805LD-12WR3			±5V/±1200mA	83	
URA4809LD-12WR3			±9V/±650mA	86	
URA4812LD-12WR3			±12V/±500mA		
URA4815LD-12WR3			±15V/±400mA	88	
URA4824LD-12WR3			±24V/±250mA	89	
URB4803LD-12WR3	12W	48V (18V-75V)	3.3V/3000mA	80	1500VDC (DIP)
URB4805LD-12WR3			5V/2400mA	83	
URB4809LD-12WR3			9V/1300mA	87	
URB4812LD-12WR3			12V/1000mA		
URB4815LD-12WR3			15V/800mA	88	
URB4824LD-12WR3			24V/500mA	89	
URA1D03LD-12WR3	12W	110V (40V-160V)	±3.3V/±1800mA	80	1500VDC (DIP)
URA1D05LD-12WR3			±5V/±1200mA	83	
URA1D09LD-12WR3			±9V/±650mA	86	
URA1D12LD-12WR3			±12V/±500mA		
URA1D15LD-12WR3			±15V/±400mA	88	
URA1D24LD-12WR3			±24V/±250mA	89	
URB1D03LD-12WR3	12W	110V (40V-160V)	3.3V/3000mA	80	1500VDC (DIP)
URB1D05LD-12WR3			5V/2400mA	83	
URB1D09LD-12WR3			9V/1300mA	87	
URB1D12LD-12WR3			12V/1000mA		
URB1D15LD-12WR3			15V/800mA	88	
URB1D24LD-12WR3			24V/500mA	89	
Appearance size: L×W×H50.8*25.4*11mm					

*The above is only parts of standard models. If you need other models, please contact our sales team.

■ URA (B) _LD-15WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2403LD-15WR3	15W	24V (9V-36V)	±3.3V/±2270mA	85	1500VDC (DIP)
URA2405LD-15WR3			±5V/±1500mA		
URA2409LD-15WR3			±9V/±830mA	86	
URA2412LD-15WR3			±12V/±625mA	88	
URA2415LD-15WR3			±15V/±500mA		
URA2424LD-15WR3			±24V/±315mA	87	
URB2403LD-15WR3	15W	24V (9V-36V)	3.3V/4000mA	86	1500VDC (DIP)
URB2405LD-15WR3			5V/3000mA	88	
URB2409LD-15WR3			9V/1670mA		
URB2412LD-15WR3			12V/1250mA	89	
URB2415LD-15WR3			15V/1000mA		
URB2424LD-15WR3			24V/625mA		
URA4803LD-15WR3	15W	48V (18V-75V)	±3.3V/±2270mA	84	1500VDC (DIP)
URA4805LD-15WR3			±5V/±1500mA		
URA4809LD-15WR3			±9V/±830mA	85	
URA4812LD-15WR3			±12V/±625mA	88	
URA4815LD-15WR3			±15V/±500mA		
URA4824LD-15WR3			±24V/±315mA	87	
URB4803LD-15WR3	15W	48V (18V-75V)	3.3V/3000mA	86	1500VDC (DIP)
URB4805LD-15WR3			5V/2400mA	88	
URB4809LD-15WR3			9V/1300mA		
URB4812LD-15WR3			12V/1000mA	89	
URB4815LD-15WR3			15V/800mA		
URB4824LD-15WR3			24V/625mA		
Appearance size: L×W×H 50.8*25.4*11mm					

VR(A)B_YMD/UR(A)B_YMD Series(20-25W)

Wide voltage input, Isolated stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Wide voltage input, Isolated stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Input and output safety isolation, isolation voltage 1500VDC
- Input undervoltage, output short circuit, over-current, over-voltage protection
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



VRA (B) _YMD-20WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
VRA1205YMD-20WR3	20W	12V (9V-18V)	±5V/±2000mA	85	1500VDC (DIP)
VRA1212YMD-20WR3			±12V/±833mA	88	
VRA1215YMD-20WR3			±15V/±667mA		
VRA1224YMD-20WR3			±24V/±416mA		
VRB1203YMD-20WR3	20W	12V (9V-18V)	3.3V/5000mA	86	1500VDC (DIP)
VRB1205YMD-20WR3			5V/4000mA	88	
VRB1212YMD-20WR3			12V/1666mA		
VRB1215YMD-20WR3			15V/1333mA	89	
VRB1224YMD-20WR3			24V/833mA		
VRA2405YMD-20WR3	20W	24V (18V-36V)	±5V/±2000mA	85	1500VDC (DIP)
VRA2412YMD-20WR3			±12V/±833mA	88	
VRA2415YMD-20WR3			±15V/±667mA		
VRA2424YMD-20WR3			±24V/±416mA		
VRB2403YMD-20WR3	20W	24V (18V-36V)	3.3V/5000mA	86	1500VDC (DIP)
VRB2405YMD-20WR3			5V/4000mA	88	
VRB2412YMD-20WR3			12V/1666mA		
VRB2415YMD-20WR3			15V/1333mA	89	
VRB2424YMD-20WR3			24V/833mA		
VRA4805YMD-20WR3	20W	48V (36V-75V)	±5V/±2000mA	85	1500VDC (DIP)
VRA4812YMD-20WR3			±12V/±833mA	88	
VRA4815YMD-20WR3			±15V/±667mA		
VRA4824YMD-20WR3			±24V/±416mA		
VRB4803YMD-20WR3	20W	48V (36V-75V)	3.3V/5000mA	86	1500VDC (DIP)
VRB4805YMD-20WR3			5V/4000mA	88	
VRB4812YMD-20WR3			12V/1666mA		
VRB4815YMD-20WR3			15V/1333mA	89	
VRB4824YMD-20WR3			24V/833mA		
Appearance size: L×W×H25.4*25.4*11.8mm					

URA (B) _YMD-20WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2403YMD-20WR3	20W	24V (9V-36V)	±3.3V/±3000mA	85	1500VDC (DIP)
URA2405YMD-20WR3			±5V/±2000mA		
URA2409YMD-20WR3			±9V/±1100mA	88	
URA2412YMD-20WR3			±12V/±833mA		
URA2415YMD-20WR3			±15V/±667mA		
URA2424YMD-20WR3			±24V/±416mA		
URB2403YMD-20WR3	20W	24V (9V-36V)	3.3V/5000mA	86	1500VDC (DIP)
URB2405YMD-20WR3			5V/4000mA	88	
URB2409YMD-20WR3			9V/2200mA		
URB2412YMD-20WR3			12V/1666mA	89	
URB2415YMD-20WR3			15V/1333mA		
URB2424YMD-20WR3			24V/833mA		
URA4803YMD-20WR3	20W	48V (18V-75V)	±3.3V/±3000mA	85	1500VDC (DIP)
URA4805YMD-20WR3			±5V/±2000mA		
URA4809YMD-20WR3			±9V/±1100mA	88	
URA4812YMD-20WR3			±12V/±833mA		
URA4815YMD-20WR3			±15V/±667mA		
URA4824YMD-20WR3			±24V/±416mA		
URB4803YMD-20WR3	20W	48V (18V-75V)	3.3V/5000mA	86	1500VDC (DIP)
URB4805YMD-20WR3			5V/4000mA	88	
URB2409YMD-20WR3			9V/2200mA		
URB4812YMD-20WR3			12V/1666mA	89	
URB4815YMD-20WR3			15V/1333mA		
URB4824YMD-20WR3			24V/833mA		
Appearance size: L×W×H25.4*25.4*11.8mm					

URA (B) _YMD-25WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage/ current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2405YMD-25WR3	25W	24V (9V-36V)	±5V/±2500mA	85	1500VDC (DIP)
URA2412YMD-25WR3			±12V/±1042mA	88	
URA2415YMD-25WR3			±15V/±833mA		
URA2424YMD-25WR3			±24V/±512mA		
URB2403YMD-25WR3	25W	24V (9V-36V)	3.3V/6000mA	86	1500VDC (DIP)
URB2405YMD-25WR3			5V/5000mA	88	
URB2412YMD-25WR3			12V/2080mA		
URB2415YMD-25WR3			15V/1666mA	89	
URB2424YMD-25WR3			24V/1042mA		
URA4805YMD-25WR3	25W	48V (18V-75V)	±5V/±2500mA	85	1500VDC (DIP)
URA4812YMD-25WR3			±12V/±1042mA	88	
URA4815YMD-25WR3			±15V/±833mA		
URA4824YMD-25WR3			±24V/±520mA		
URB4803YMD-20WR3	25W	48V (18V-75V)	3.3V/6000mA	86	1500VDC (DIP)
URB4805YMD-20WR3			5V/5000mA	88	
URB4812YMD-20WR3			12V/2080mA		
URB4815YMD-20WR3			15V/1666mA	89	
URB4824YMD-20WR3			24V/1042mA		
Appearance size: L×W×H 25.4*25.4*11.8mm					

*The above is only parts of standard models. If you need other models, please contact our sales team.

UR(A)B_LD/UR(A)B_XLD Series(20-30W)

Wide voltage input, Isolated stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Wide voltage input, isolated stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Input and output safety isolation, isolation voltage 1500VDC
- Input undervoltage, output short circuit, over-current, over-voltage protection
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



URA (B) _LD-20WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2403LD-20WR3	20W	24V (9V-36V)	±3.3V/±3300mA	85	1500VDC (DIP)
URA2405LD-20WR3			±5V/±2000mA		
URA2409LD-20WR3			±9V/±1111mA	86	
URA2412LD-20WR3			±12V/±833mA	88	
URA2415LD-20WR3			±15V/±666mA		
URA2424LD-20WR3			±24V/±416mA	87	
URB2403LD-20WR3	20W	24V (9V-36V)	3.3V/5000mA	86	1500VDC (DIP)
URB2405LD-20WR3			5V/4000mA		
URB2409LD-20WR3			9V/2222mA	88	
URB2412LD-20WR3			12V/1666mA		
URB2415LD-20WR3			15V/1333mA	89	
URB2424LD-20WR3			24V/833mA		
URA4803LD-20WR3	20W	48V (18V-75V)	±3.3V/±3300mA	85	1500VDC (DIP)
URA4805LD-20WR3			±5V/±2000mA		
URA4809LD-20WR3			±9V/±1111mA	86	
URA4812LD-20WR3			±12V/±833mA	88	
URA4815LD-20WR3			±15V/±666mA		
URA4824LD-20WR3			±24V/±416mA	87	
URB4803LD-20WR3	20W	48V (18V-75V)	3.3V/5000mA	86	1500VDC (DIP)
URB4805LD-20WR3			5V/4000mA		
URB4809LD-20WR3			9V/2222mA	88	
URB4812LD-20WR3			12V/1666mA		
URB4815LD-20WR3			15V/1333mA	89	
URB4824LD-20WR3			24V/833mA		
URA1D03LD-20WR3	20W	110V (40V-160V)	±3.3V/±3300mA	85	1500VDC (DIP)
URA1D05LD-20WR3			±5V/±2000mA		
URA1D09LD-20WR3			±9V/±1111mA	86	
URA1D12LD-20WR3			±12V/±833mA	88	
URA1D15LD-20WR3			±15V/±666mA		
URA1D24LD-20WR3			±24V/±416mA	87	
URB1D03LD-20WR3	20W	110V (40V-160V)	3.3V/5000mA	86	1500VDC (DIP)
URB1D05LD-20WR3			5V/4000mA		
URB1D09LD-20WR3			9V/2222mA	88	
URB1D12LD-20WR3			12V/1666mA		
URB1D15LD-20WR3			15V/1333mA	89	
URB1D24LD-20WR3			24V/833mA		

Appearance size: L×W×H 50.8*25.4*11.8mm

URA (B) _LD-30WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2403LD-30WR3	30W	24V (9V-36V)	±3.3V/±4500mA	85	1500VDC (DIP)
URA2405LD-30WR3			±5V/±3000mA		
URA2409LD-30WR3			±9V/±1670mA	86	
URA2412LD-30WR3			±12V/±1250mA	88	
URA2415LD-30WR3			±15V/±1000mA		
URA2424LD-30WR3			±24V/±625mA	87	
URB2403LD-30WR3	30W	24V (9V-36V)	3.3V/7000mA	86	1500VDC (DIP)
URB2405LD-30WR3			5V/6000mA		
URB2409LD-30WR3			9V/3300mA	88	
URB2412LD-30WR3			12V/2500mA		
URB2415LD-30WR3			15V/2000mA	89	
URB2424LD-30WR3			24V/1250mA		
URA4803LD-30WR3	30W	48V (18V-75V)	±3.3V/±4500mA	84	1500VDC (DIP)
URA4805LD-30WR3			±5V/±3000mA		
URA4809LD-30WR3			±9V/±1670mA	86	
URA4812LD-30WR3			±12V/±1250mA	88	
URA4815LD-30WR3			±15V/±1000mA		
URA4824LD-30WR3			±24V/±625mA	87	
URB4803LD-30WR3	30W	48V (18V-75V)	3.3V/7000mA	80	1500VDC (DIP)
URB4805LD-30WR3			5V/6000mA		
URB4809LD-30WR3			9V/3300mA	88	
URB4812LD-30WR3			12V/2500mA	87	
URB4815LD-30WR3			15V/2000mA	88	
URB4824LD-30WR3			24V/1250mA		
URA1D03LD-30WR3	30W	110V (40V-160V)	±3.3V/±4500mA	84	1500VDC (DIP)
URA1D05LD-30WR3			±5V/±3000mA		
URA1D09LD-30WR3			±9V/±1670mA	86	
URA1D12LD-30WR3			±12V/±1250mA	88	
URA1D15LD-30WR3			±15V/±1000mA		
URA1D24LD-30WR3			±24V/±625mA	89	
URB1D03LD-30WR3	30W	110V (40V-160V)	3.3V/7000mA	85	1500VDC (DIP)
URB1D05LD-30WR3			5V/6000mA		
URB1D09LD-30WR3			9V/3300mA	86	
URB1D12LD-30WR3			12V/2500mA	88	
URB1D15LD-30WR3			15V/2000mA	89	
URB1D24LD-30WR3			24V/1250mA		

Appearance size: L×W×H 50.8*25.4*11.8mm

URA (B) _XLD-30WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2405XLD-30WR3	30W	24V (9V-36V)	±5V/±3000mA	85	1500VDC (DIP)
URA2412XLD-30WR3			±12V/±1250mA	88	
URA2415XLD-30WR3			±15V/±1000mA		
URA2424XLD-30WR3			±24V/±625mA	87	
URB2403XLD-30WR3	30W	24V (9V-36V)	3.3V/7000mA	86	1500VDC (DIP)
URB2405XLD-30WR3			5V/6000mA	88	
URB2412XLD-30WR3			12V/2500mA		
URB2415XLD-30WR3			15V/2000mA	89	
URB2424XLD-30WR3			24V/1250mA		
URA4805XLD-30WR3			30W	48V (18V-75V)	
URA4812XLD-30WR3	±12V/±1250mA	88			
URA4815XLD-30WR3	±15V/±1000mA				
URA4824XLD-30WR3	±24V/±625mA	87			
URB4803XLD-30WR3	30W	48V (18V-75V)	3.3V/7000mA	80	1500VDC (DIP)
URB4805XLD-30WR3			5V/6000mA	88	
URB4812XLD-30WR3			12V/2500mA	87	
URB4815XLD-30WR3			15V/2000mA	88	
URB4824XLD-30WR3			24V/1250mA		
URA1D05XLD-30WR3	30W	110V (40V-160V)	±5V/±3000mA	84	1500VDC (DIP)
URA1D12XLD-30WR3			±12V/±1250mA	88	
URA1D15XLD-30WR3			±15V/±1000mA	89	
URA1D24XLD-30WR3			±24V/±625mA		
URB1D03XLD-30WR3	30W	110V (40V-160V)	3.3V/7000mA	85	1500VDC (DIP)
URB1D05XLD-30WR3			5V/6000mA	86	
URB1D12XLD-30WR3			12V/2500mA	88	
URB1D15XLD-30WR3			15V/2000mA	89	
URB1D24XLD-30WR3			24V/1250mA		
Appearance size: L×W×H50.8*25.4*11.8mm					

*The above is only parts of standard models. If you need other models, please contact our sales team.

VR(A)B_LMD/UR(A)B_LMD Series(30-50W)

Wide voltage input, Isolated stabilized voltage output
High efficiency, Low ripple noise

PRODUCT FEATURES

- Wide voltage input, isolated stabilized voltage output
- Working ambient temperature: - 40 °C ~+85 °C
- Input and output safety isolation, isolation voltage 1500VDC
- Input undervoltage, output short circuit, over-current, over- voltage protection
- High reliability, long life design, continuous working time > 3.5 million hours
- International standard pin mode, PCB board in-line installation
- Meet CE/UL/EMC safety testing and RoHS certification requirements



URA (B) _LMD-30WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2405LMD-30WR3	30W	24V (9V-36V)	±5V/±3000mA	85	1500VDC (DIP)
URA2412LMD-30WR3			±12V/±1250mA	88	
URA2415LMD-30WR3			±15V/±1000mA	87	
URA2424LMD-30WR3			±24V/±625mA	87	
URB2403LMD-30WR3	30W	24V (9V-36V)	3.3V/8000mA	80	1500VDC (DIP)
URB2405LMD-30WR3			5V/6000mA	85	
URB2412LMD-30WR3			12V/2500mA	88	
URB2415LMD-30WR3			15V/2000mA	89	
URB2424LMD-30WR3	30W	24V (9V-36V)	24V/1250mA	89	1500VDC (DIP)
URA4805LMD-30WR3		48V (18V-75V)	±5V/±3000mA	84	
URA4812LMD-30WR3			±12V/±1250mA	88	
URA4815LMD-30WR3			±15V/±1000mA	87	
URA4824LMD-30WR3			±24V/±625mA	87	
URB4803LMD-30WR3	30W	48V (18V-75V)	3.3V/8000mA	80	1500VDC (DIP)
URB4805LMD-30WR3			5V/6000mA	85	
URB4812LMD-30WR3			12V/2500mA	87	
URB4815LMD-30WR3			15V/2000mA	88	
URB4824LMD-30WR3	30W	48V (18V-75V)	24V/1250mA	89	1500VDC (DIP)
URA1D05LMD-30WR3		110V (40V-160V)	±5V/±3000mA	84	
URA1D12LMD-30WR3			±12V/±1250mA	88	
URA1D15LMD-30WR3			±15V/±1000mA	89	
URA1D24LMD-30WR3			±24V/±625mA	89	
URB1D03LMD-30WR3	30W	110V (40V-160V)	3.3V/8000mA	85	1500VDC (DIP)
URB1D05LMD-30WR3			5V/6000mA	86	
URB1D12LMD-30WR3			12V/2500mA	88	
URB1D15LMD-30WR3			15V/2000mA	89	
URB1D24LMD-30WR3	30W	110V (40V-160V)	24V/1250mA	89	1500VDC (DIP)

Appearance size: L×W×H 50.8*50.8*12.7mm

VRA (B) _LMD-40WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current (Vo/Io)	Efficiency % (Typ)	Isolation voltage
VRA1212LMD-40WR3	40W	12 (9V~18V)	±12V/±1666mA	88	1500VDC (DIP)
VRA1215LMD-40WR3			±15V/±1333mA	87	
VRA1224LMD-40WR3			±24V/±833mA	87	
VRB1205LMD-40WR3	40W	12V (9V-18V)	5V/8000mA	86	1500VDC (DIP)
VRB1212LMD-40WR3			12V/3333mA	88	
VRB1215LMD-40WR3			15V/2666mA	89	
VRB1224LMD-40WR3			24V/1666mA		
VRA2412LMD-40WR3	40W	24V (18V-36V)	±12V/±1666mA	88	1500VDC (DIP)
VRA2415LMD-40WR3			±15V/±1333mA	87	
VRA2424LMD-40WR3			±24V/±833mA	87	
VRB2405LMD-40WR3	40W	24V (18V-36V)	5V/8000mA	86	1500VDC (DIP)
VRB2412LMD-40WR3			12V/3333mA	88	
VRB2415LMD-40WR3			15V/2666mA	89	
VRB2424LMD-40WR3			24V/1666mA		
VRA4812LMD-40WR3	40W	48V (36V-75V)	±12V/±1666mA	88	1500VDC (DIP)
VRA4815LMD-40WR3			±15V/±1333mA	87	
VRA4824LMD-30WR3			±24V/±833mA	87	
VRB4805LMD-40WR3	40W	48V (36V-75V)	5V/8000mA	86	1500VDC (DIP)
VRB4809LMD-40WR3			9V/4444mA	87	
VRB4812LMD-40WR3			12V/3333mA	88	
VRB4815LMD-40WR3			15V/2666mA	88	
VRB4824LMD-40WR3			24V/1666mA	89	
VRA1D12LMD-40WR3	40W	110V (72V-144V)	±12V/±1666mA	88	1500VDC (DIP)
VRA1D15LMD-40WR3			±15V/±1333mA	89	
VRA1D24LMD-40WR3			±24V/±833mA	89	
VRB1D05LMD-40WR3	40W	110V (72V-144V)	5V/8000mA	86	1500VDC (DIP)
VRB1D12LMD-40WR3			12V/3333mA	88	
VRB1D15LMD-40WR3			15V/2666mA	89	
VRB1D24LMD-40WR3			24V/1666mA		

Appearance size: L×W×H 50.8*50.8*12.7mm

URA (B) _LMD-40WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2412LMD-40WR3	40W	24V (9V-36V)	±12V/±1666mA	88	1500VDC (DIP)
URA2415LMD-40WR3			±15V/±1333mA		
URA2424LMD-40WR3			±24V/±833mA	87	
URB2405LMD-40WR3	40W	24V (9V-36V)	5V/8000mA	86	1500VDC (DIP)
URB2412LMD-40WR3			12V/3333mA	88	
URB2415LMD-40WR3			15V/2666mA	89	
URB2424LMD-40WR3			24V/1666mA		
URA4809LMD-40WR3	40W	48V (18V-75V)	±9V/±2222mA	88	1500VDC (DIP)
URA4812LMD-40WR3			±12V/±1250mA		
URA4815LMD-40WR3			±15V/±1000mA		
URA4824LMD-40WR3			±24V/±625mA	87	
URB4805LMD-40WR3	40W	48V (18V-75V)	5V/8000mA	86	1500VDC (DIP)
URB4809LMD-40WR3			9V/4444mA	87	
URB4812LMD-40WR3			12V/3333mA		
URB4815LMD-40WR3			15V/2666mA	88	
URB4824LMD-40WR3			24V/1666mA	89	
URA1D09LMD-40WR3	40W	110V (40V-160V)	±9V/±2222mA	88	1500VDC (DIP)
URA1D12LMD-40WR3			±12V/±1666mA		
URA1D15LMD-40WR3			±15V/±1333mA	89	
URA1D24LMD-40WR3			±24V/±833mA		
URB1D05LMD-40WR3	40W	110V (40V-160V)	5V/8000mA	86	1500VDC (DIP)
URB1D09LMD-40WR3			9V/4444mA	88	
URB1D12LMD-40WR3			12V/3333mA		
URB1D15LMD-40WR3			15V/2666mA	89	
URB1D24LMD-40WR3			24V/1666mA		
Appearance size: L×W×H 50.8*50.8*12.7mm					

*The above is only parts of standard models. If you need other models, please contact our sales team.

URA (B) _LMD-50WR3 MODEL SELECTION

Model	Power	Input voltage (VDC)	Output voltage / current(Vo/Io)	Efficiency % (Typ)	Isolation voltage
URA2412LMD-50WR3	50W	24V (9V-36V)	±12V/±2083mA	88	1500VDC (DIP)
URA2415LMD-50WR3			±15V/±1666mA		
URA2424LMD-50WR3			±24V/±1042mA	87	
URB2405LMD-50WR3	50W	24V (9V-36V)	5V/8000mA	86	1500VDC (DIP)
URB2412LMD-50WR3			12V/4166mA	88	
URB2415LMD-50WR3			15V/3333mA	89	
URB2424LMD-50WR3			24V/2083mA		
URA4809LMD-50WR3	50W	48V (18V-75V)	±9V/±2777mA	88	1500VDC (DIP)
URA4812LMD-50WR3			±12V/±2083mA		
URA4815LMD-50WR3			±15V/±1666mA		
URA4824LMD-50WR3			±24V/±1042mA	87	
URB4805LMD-50WR3	50W	48V (18V-75V)	5V/8000mA	86	1500VDC (DIP)
URB4809LMD-50WR3			9V/5555mA	87	
URB4812LMD-50WR3			12V/4166mA		
URB4815LMD-50WR3			15V/3333mA	88	
URB4824LMD-50WR3			24V/2083mA	89	
URA1D09LMD-50WR3	50W	110V (40V-160V)	±9V/±2777mA	88	1500VDC (DIP)
URA1D12LMD-50WR3			±12V/±2083mA		
URA1D15LMD-50WR3			±15V/±1666mA	89	
URA1D24LMD-50WR3			±24V/±1042mA		
URB1D05LMD-50WR3	50W	110V (40V-160V)	5V/8000mA	86	1500VDC (DIP)
URB1D09LMD-50WR3			9V/5555mA	88	
URB1D12LMD-50WR3			12V/4166mA		
URB1D15LMD-50WR3			15V/3333mA	89	
URB1D24LMD-50WR3			24V/2083mA		
Appearance size: L×W×H 50.8*50.8*12.7mm					

K78 Series(500R3&2000R3)

Wide voltage input, Output short circuit protection
Non-isolated stabilized voltage single output

PRODUCT FEATURES

- Wide voltage input, non-isolated stabilized voltage output
- Working ambient temperature - 40 °C ~+85 °C
- Packaging form industrial standard SIP-3 packaging
- Support negative output
- Conversion efficiency up to 95%
- Input undervoltage, output short circuit, over-current, over-voltage protection
- Output short circuit protection
- Application areas power, industrial control, communication, internet of things, automotive, transportation rail, etc



K78-500R3 MODEL SELECTION

Model	Input voltage (VDC)	Output voltage / current	Full Load Efficiency %Typ Min/Max(Vin)
K7803-500R3	24V(4.75V-36V)	3.3V/500mA	86/80
K7805-500R3	24V(6.5V-36V)	5V/500mA	90/84
	12V(7V-31V)	-5V/-300mA	80/81
K7809-500R3	24V(12V-36V)	9V/500mA	93/90
K7812-500R3	24V(15V-36V)	12V/500mA	94/91
	12V(8V-24V)	-12V/-150mA	84/85
K7815-500R3	24V(19V-36V)	15V/500mA	95/93
	12V(8V-21V)	-15V/-150mA	85/87
Appearance size: L×W×H L×W×H 11.5*7.55*10.20mm			

K78-1000R3 MODEL SELECTION

Model	Input voltage (VDC)	Output voltage / current	Full Load Efficiency %Typ Min/Max(Vin)
K7803-1000R3	24V(6V-36V)	3.3V/1000mA	90/80
K7805-1000R3	24V(8V-36V)	5V/1000mA	93/85
K7809-1000R3	24V(13V-36V)	9V/1000mA	94/89
K7812-1000R3	24V(16V-36V)	12V/1000mA	95/92
	12V(8V-20V)	-12V/-300mA	88/87
K7815-1000R3	24V(20V-36V)	15V/1000mA	96/93
	12V(8V-18V)	-15V/-300mA	87/88
Appearance size: L×W×H 11.6*9*17.5mm			

TD5(3)21D485H-A Series

Power isolation, Signal isolation,
RS485 communication, Bus protection

PRODUCT FEATURES

- Built-in high-efficiency isolated power supply
- Automatic data transmission and reception function
- Baud rate up to 500kbps
- Isolation withstand voltage of 3000VDC at both ends
- Working environment temperature: -40° C~+85° C
- Integrates isolation and ESD bus protection functions
- The same network can support connecting 128 nodes



K78-500R3 SERIES PRODUCT MODEL SELECTION

Model	Input Voltage Range (VDC)	Transmission baud rate(kbps)	Static current/Maximum working current	Isolated power output(VDC/Typ.)	Number of nodes
TD321D485H-A	3.15V-3.45V	500	37mA/90mA	5	128
TD521D485H-A	4.75V-5.25V	500	40mA/90mA	5	128
Appearance size: L×W×H 20*17*15.9mm					

Micro Brushless ESC Controller

Small size, stable performance,
good anti-interference

■ PRODUCT FEATURES

- Small size, stable performance, good anti-interference
- Signal pulse width: 0.9ms-2ms
- Control signal type: PWM
- Throttle signal frequency range: 50HZ-400HZ
- Overheat protection function
- Safe power-on protection function



TECHNICAL DATA		
Model	DL03	DL04
Output performance	8A	20A
Power input	12V	12V
Control signal type	PWM	PWM
Throttle signal frequency range	50HZ	50HZ-400HZ
Signal pulse width	0.9ms-2ms	0.9ms-2ms
Size(mm)	7*22.4*2.7	52*26.4*8.4
Application scenarios	Industrial machinery, electric drills, angle grinders, model cars/boats	Model airplanes, fans, automobile turbines, blowers

Product Safety Precautions

Purpose:

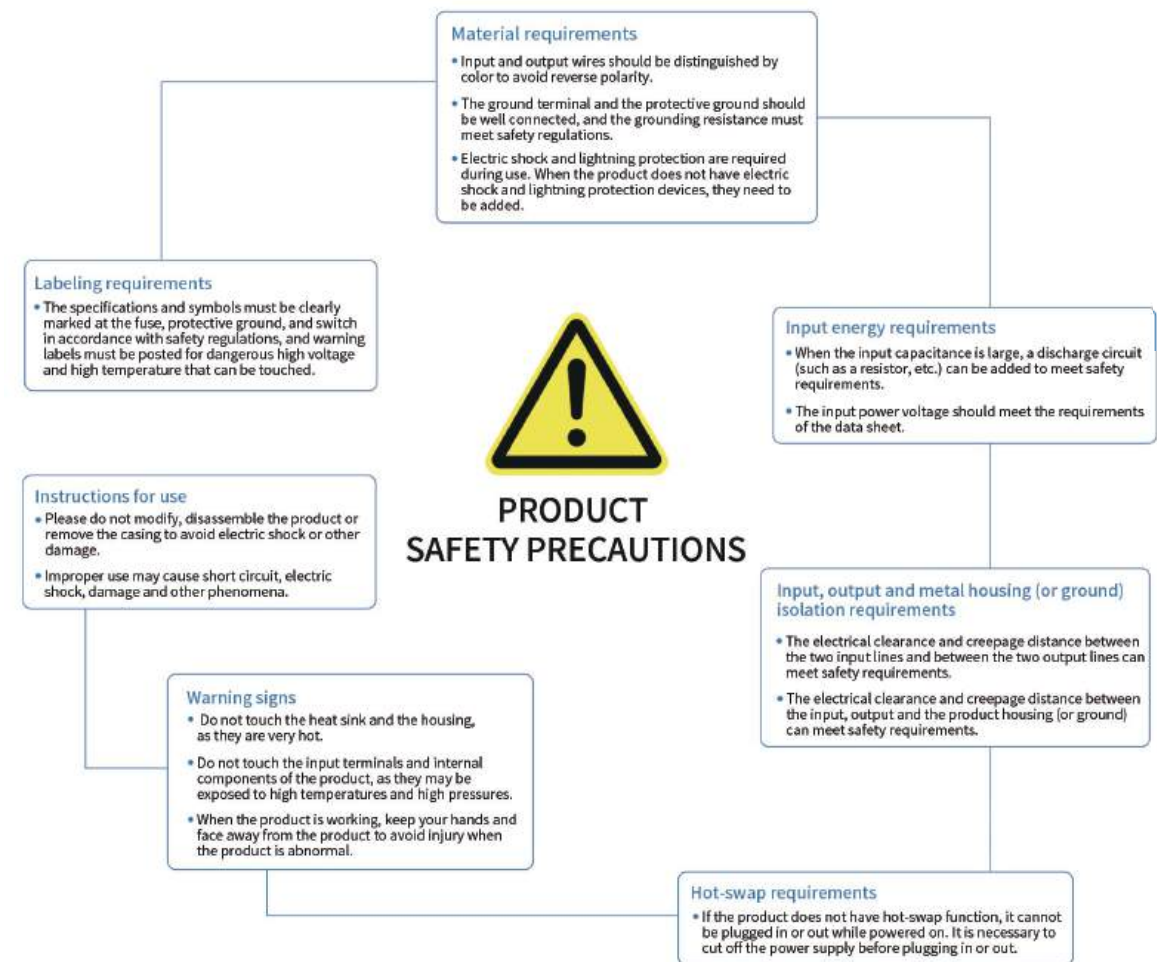
Prevent possible safety problems that may occur when customers use the product.

Scope of application:

AC-DC power module, chassis switching power supplies, DC-DC power modules, etc.
produced by Shenzhen Hi-Link Electronic Co., Ltd.

Content:

Before designing and selecting models and mass production, customers should ensure that they carefully read all the contents of the relevant models in the catalogue and design and use the products according to the requirements in the data sheet.



Global Sales Network

Hi-Link has provided WiFi modules, power modules, sensor modules and other OEM/ODM products to more than 100,000 customers in more than 80 countries, including the United States, Mexico, Germany, Italy, Turkey, Brazil, India, Thailand, etc.

We have established an extensive global sales network and are deeply loved by global customers for its high quality and competitive prices.



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