

More information, please visit:

www.mornsun-power.com



MORNSUN®

One-stop solutions of power supplies

MORNSUN Power

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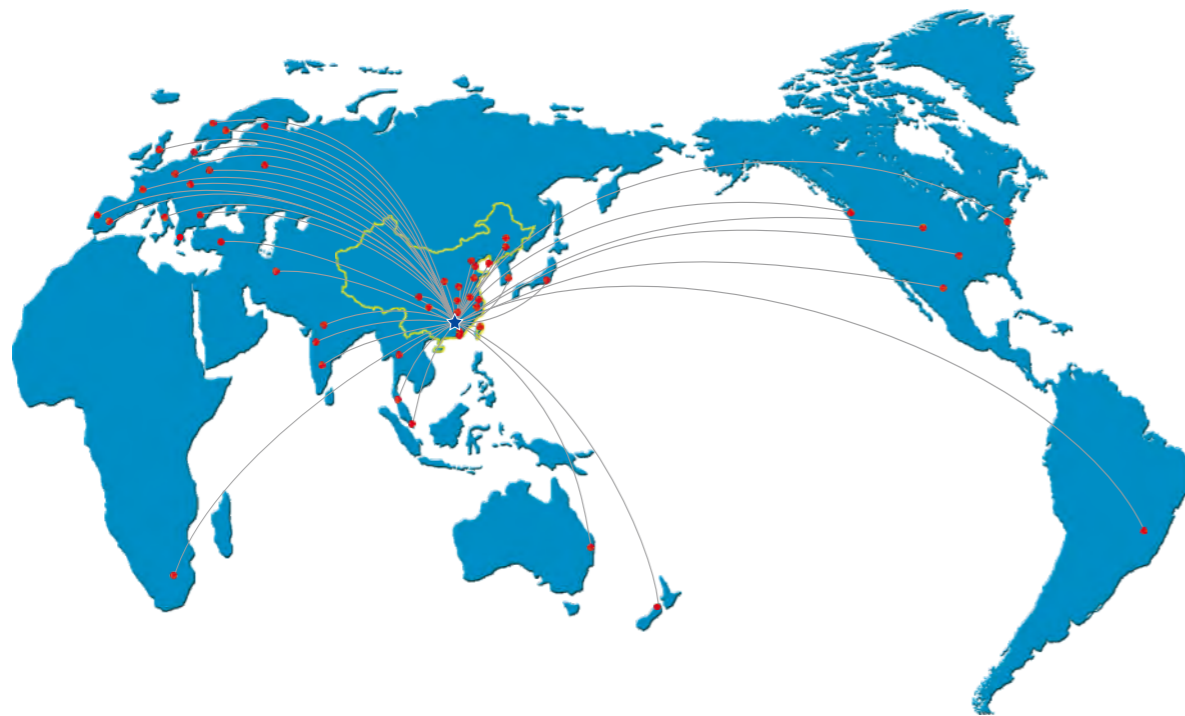
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Distributions



AC/DC Enclosed Switching Power Supply • AC/DC Converter • DC/DC Converter • Transceiver Module
Signal Conditioning Module • IGBT Driver • LED Driver • EMC Auxiliary Device



Selection Guide 2021

MORNSUN®

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MORE THAN RELIABILITY

- Established: 1998
- Factory: 60000+ square meters
- Employees: 3000+
- Patents & IPRs: 1300+
- Business Coverage: Global
- Information Management:
OA & ERP & CRM & EHR & PLM & ISP
- Certifications: ISO9001, OHSAS18001, ISO14001, IATF16949



Headquarter in Guangzhou



Manufacturing Center in Huaihua



R&D Center in Guangzhou

Product Range

AC/DC

- Power Range: 1-1000W
- Isolation Voltage: 2000-4200VAC
- Input Voltage Range: 30-1500VAC

DC/DC

- Power Range: 0.2-400W
- Isolation Voltage: 1000VDC-6000VDC/5000VAC
- Input Voltage Range: 3.3-1500VDC

Packages: SIP, DIP, SMD, lead wire, open frame, chassis mounting, DIN-Rail mounting

Applications



Industrial



Medical



IoT



Lighting



Automotive



PV



Power Grid



Communication



Fire & Security



Railway

Excellent Technology

- Automatic welding machine
- Laser marking system
- EMC laboratory
- Intelligent burn-in system
- Reflow soldering equipment
- UL/CSA/TUV Certified lab
- Automatic winding machine
- X fluorescence RoHS tester
- SMT AOI

Systems

IATF16949

ISO9001

ISO14001

OHSAS18001

Markings



REACH



Automatic TE workshop



Automatic SMT clean room

AC/DC Enclosed

- Compact size with 1U low profile
- Output short circuit, over-current, over-voltage, over-temperature protections
- Withstand 300VAC surge input for 5s
- Over-voltage class III (designed to meet EN61558)
- Withstand 5G vibration test, meets 5000m altitude requirement
- Low standby power consumption (<0.3W), high efficiency (up to 91.5%)
- LED indicator for power on (200W/350W)
- Forced air cooling by built-in DC fan (350W)
- CE/CCC approval
- Active PFC function is available
- 3-proof customization is available



15-600W AC/DC enclosed LM series

Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
LM15-23B NEW	15W	85-305VAC/100-430VDC	3,3,5,12,15,24,48	4000VAC	65.00x55.00x25.00	RoHS
LM25-23B NEW	25W	85-305VAC/100-430VDC	3,3,5,12,15,24,48	4000VAC	80.00x55.00x25.00	RoHS
LM35-23B NEW	35W	85-305VAC/120-430VDC	5,12,15,24	4000VAC	99.00x82.00x30.00	RoHS
LM50-23B NEW	50W	85-305VAC/120-430VDC	5,12,15,24,36,48	4000VAC	99.00x82.00x30.00	RoHS
LM75-23B NEW	75W	85-305VAC/120-430VDC	5,12,15,24,36,48	4000VAC	99.00x97.00x30.00	RoHS
LM100-23B NEW	100W	85-305VAC/120-430VDC	5,12,15,24,36,48	4000VAC	129.00x97.00x30.00	RoHS
LM150-23B NEW	150W	85-305VAC/120-430VDC	12,15,24,36,48	4000VAC	159.00x97.00x30.00	RoHS
LM35-20B	35W	85-264VAC/120-370VDC	5,12,15,24	4000VAC	215.00x115.00x30.00	RoHS
LM50-20B	50W	85-264VAC/120-370VDC	5,12,15,24,36,48	4000VAC	179.00x99.00x30.00	RoHS
LM75-20B	75W	85-264VAC/120-370VDC	5,12,15,24,48	4000VAC	179.00x99.00x30.00	RoHS
LM100-20B	100W	85-264VAC/120-370VDC	5,12,15,24,36,48	4000VAC	159.00x97.00x30.00	RoHS
LM150-20B	150W	85-264VAC/120-370VDC	12,15,24,36,48	4000VAC	159.00x97.00x30.00	RoHS
LM200-10B	200W	90-132VAC/180-264VAC	5,12,15,24,36,48	3000VAC	129.00x97.00x30.00	RoHS
LM350-10B	350W	90-132VAC/180-264VAC	5,12,15,24,36,48	3000VAC	215.00x115.00x30.00	RoHS
LM35-22B	35W	165-264VAC/180-370VDC	5,12,15,24	4000VAC	99.00x97.00x30.00	RoHS
LM50-22B	50W	165-264VAC/180-373VDC	5,12,15,24,36,48	4000VAC	99.00x82.00x30.00	RoHS
LM75-22B	75W	165-264VAC/200-370VDC	5,12,15,24,48	4000VAC	99.00x97.00x30.00	RoHS
LM100-22B	100W	165-264VAC/200-370VDC	5,12,15,24,36,48	4000VAC	99.00x97.00x30.00	RoHS
LM150-22B	150W	165-264VAC/180-370VDC	12,15,24,36,48	4000VAC	99.00x97.00x30.00	RoHS
LM200-12B	200W	176-264VAC/240-370VDC	5,12,15,24,36,48	3000VAC	99.00x97.00x30.00	RoHS
LM350-12B	350W	176-264VAC/240-370VDC	5,12,15,24,36,48	3000VAC	99.00x82.00x30.00	RoHS
LM450-12B NEW	450W	176-264VAC/240-373VDC	12,15,24,48	3000VAC	99.00x82.00x30.00	RoHS
LM600-12B NEW	600W	176-264VAC/240-370VDC	12,15,24,36,48	3000VAC	99.00x82.00x30.00	RoHS
LM30-00J0512-03E	30W	85-264VAC/100-370VDC	5/±12/24	2000VAC	109.00x58.50x30.00	RoHS
LM35-10A	35W	85-264VAC/100-370VDC	+5/+12,+5/+24	3000VAC	99.00x97.00x30.00	RoHS
LM35-10C	35W	85-264VAC/120-373VDC	+5/+12/-12,+5/+15/-15,+5/+24/+12	3000VAC	159.00x97.00x30.00	RoHS
LM35-10D	35W	85-264VAC/120-373VDC	+5/+12,+5/+24	3000VAC	159.00x97.00x30.00	RoHS
LM50-10A	50W	90-264VAC/120-370VDC	+5/+12,+5/+24	3000VAC	99.00x97.00x30.00	RoHS
LM50-10A12	50W	85-264VAC/120-370VDC	+12/-12	3000VAC	99.00x97.00x30.00	RoHS
LM50-10C	50W	85-264VAC/120-373VDC	+5/+12/-12,+5/+15/-15,+5/+24/+12	3000VAC	129.00x97.00x30.00	RoHS
LM50-10D	50W	85-264VAC/120-373VDC	+5/+12,+5/+24	3000VAC	129.00x97.00x30.00	RoHS
LM60-12A15	60W	165-264VAC/180-370VDC	+15/-15	3000VAC	99.00x97.00x30.00	RoHS
LM75-10A	75W	90-264VAC/120-370VDC	+5/+12,+5/+24	3000VAC	129.00x97.00x30.00	RoHS
LM75-10C	75W	90-264VAC/120-370VDC	+5/+12/-12,+5/+15/-15,+5/+24/+12	3000VAC	129.00x97.00x30.00	RoHS
LM75-10D	75W	90-264VAC/120-373VDC	+5/+12,+5/+24	3000VAC	99.00x97.00x30.00	RoHS

Note: Conformal coating(series with suffix "-C") is acceptable and terminal cover(series with suffix "-Q") is optional for LM and LMF series.

AC/DC Enclosed

15-600W AC/DC enclosed LM series

Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
LM90-12A15	90W	165-264VAC/180-370VDC	+15/-15	3000VAC	129.00x97.00x30.00	RoHS
LM100-10C	100W	90-264VAC/120-370VDC	+5/+12/-12,+5/+15/-15,+5/+24/+12	3000VAC	215.00x115.00x30.00	RoHS
LM100-10D	100W	90-264VAC/120-370VDC	+5/+24,+12/+24	3000VAC	267.30x106.00x40.00	RoHS
LM150-12A15	150W	165-264VAC/180-370VDC	+15/-15	3000VAC	99.00x97.00x30.00	RoHS
LM150-12D	150W	176-264VAC/250-373VDC	+5/+12	3000VAC	179.00x99.00x30.00	RoHS
LM150-12M	150W	180-264VAC/240-370VDC	12/24	3000VAC	199.00x99.00x50.00	RoHS

75-1000W AC/DC enclosed LMF series (With PFC)

Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
LMF75-20B	75W	85-264VAC/120-370VDC	5,12,15,24,48	4000VAC	159.00x97.00x30.00	RoHS
LMF75-23B NEW	75W	85-305VAC/120-430VDC	5,12,15,24,48	4000VAC	159.00x97.00x30.00	RoHS
LMF100-23B	100W	85-305VAC/120-430VDC	5,12,15,24,48	4000VAC	179.00x99.00x30.00	RoHS
LMF150-23B	150W	85-305VAC/120-430VDC	12,15,24,48	4000VAC	179.00x99.00x30.00	RoHS
LMF200-23B	200W	85-305VAC/120-430VDC	12,15,24,48	4000VAC	179.00x99.00x30.00	RoHS
LMF320-23B	320W	85-305VAC/120-430VDC	5,12,15,24,48	4000VAC	215.00x115.00x30.00	RoHS
LMF600-20B NEW	600W	85-264VAC/120-373VDC	5,12,15,24,27,36,48	4000VAC	203.10x101.60x40.60	RoHS
LMF1000-20B NEW	1000W	90-264VAC/120-390VDC	12/5,24/5,48/5	4000VAC	185.00x127.00x40.50	RoHS

Note: Conformal coating(series with suffix "-C") is acceptable and terminal cover(series with suffix "-Q") is optional for LM and LMF series.

120-550W AC/DC enclosed LOF series (With PFC)

Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
LOF120-20B(-C/CF)	120W	85-264VAC/120-370VDC	12,15,24,27,36,48,54	4000VAC	76.20x50.80x31.00	RoHS
LOF225-20B(-C/CF)	225W	85-264VAC/120-370VDC	12,15,24,27,36,48,54	4000VAC	76.20x50.80x31.00	RoHS
LOF350-20B(-C/CF)	350W	90-264VAC/127-373VDC	12,15,24,27,36,48,54	4000VAC	127.00x76.20x25.40	RoHS
LOF450-20B(-C/CF) NEW	450W	90-264VAC/127-373VDC	12,15,24,27,36,48	4000VAC	127.00x76.20x37.10	RoHS
LOF550-20B(-C/CF) NEW	550W	90-264VAC/127-373VDC	12,15,24,27,36,48	4000VAC	127.00x76.20x39.10	RoHS

Metal case series: with the suffix "-C" (LOFxx-20Bxx-C), auxiliary power supply for external fan, with the suffix "-CF" (LOFxx-20Bxx-CF), auxiliary power supply for build-in fan available.

15-480W DIN35 package LI/LIF series

Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
LI15-20BxxPR2 NEW	15W	85-264VAC (277VAC available) 120-370VDC (390VDC available)	5,12,15,24,48	4000VAC	90.00x58.00x17.50	RoHS
LI30-20BxxPR2	30W	85-264VAC/120-370VDC	5,12,15,24,48	4000VAC	92.66x35.00x58.00	RoHS
LI60-20BxxPR2	60W	85-264VAC/120-370VDC	5,12,15,24,48	4000VAC	92.66x52.00x58.00	RoHS
LI75-20BxxR2	75W	90-264VAC/120-373VDC	12,24,48	4000VAC	30.00x128.00x120.00	RoHS
LI100-20BxxPR2	100W	85-264VAC/120-370VDC	12,15,24,48	4000VAC	92.66x70.00x58.00	RoHS
LI120-20BxxR2	120W	90-264VAC/127-370VDC	12,24,48	4000VAC	35.00x128.00x120.00	RoHS
LI120-20BxxR2S	120W	85-264VAC/120-370VDC	12,24,48	4000VAC	36.00x125.00x100.00	RoHS
LIF120-10BxxR2	120W	85-305VAC/100-430VDC	12,24,48	3000VAC	41.00x124.00x107.50	RoHS
LIF120-10BxxR2-EX	120W	85-264VAC/120-373VDC	12,24,48	3000VAC	32.00x124.00x110.00	RoHS
LI150-20BxxPR2 NEW	150W	85-264VAC (277VAC available) 120-370VDC (390VDC available)	12,15,24,48	4000VAC	105.00x90.00x55.40	RoHS
LIF240-10BxxR2 NEW	240W	85-264VAC/120-370VDC	12,24,48	3000VAC	37.10x127.00x76.20	RoHS
LIF240-10BxxR2S NEW	240W	85-264VAC/120-370VDC	24,48	3000VAC	124.00x54.00x110.00	RoHS
LIF480-10BxxR2 NEW	480W	85-264VAC/120-373VDC	12,24,48	3000VAC	124.00x54.00x110.00	RoHS

Bus power supply KNX series for smart building

Series	Power	Input Voltage Range	Output Voltage (VDC)	Output Current (mA)	Isolation	Dimension (mm)	Markings
KNX20-22A640	20W	180-264VAC/254-370VDC	30	640	4000VAC	52.00x90.00x58.20	RoHS

AC/DC Converter

AC/DC Converter



LS Series

- Low power consumption, low ripple & noise
- Ultra-compact size, high power density
- High flexible for the PCB layout
- Isolation voltage up to 4000VAC

Three-phase AC/DC power supply

- Ultra-wide input voltage: 45-528VAC/65-745VDC
- Compact size, high power density
- Isolation voltage up to 4000VAC

1-15W cost-effective DIY type LS series

SIP Package	Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
	LS01-15BxxSS(-F)	1W	85-305VAC/70-430VDC	5,9,12,15,24	3000VAC	35.00x11.00x18.00	RoHS
	LS03-15A12SR2S	2.4W	85-264VAC/100-370VDC	±12	3000VAC	35.00x21.00x13.00	RoHS
	LS03-13BxxR3 NEW	3W	85-305VAC/70-430VDC	3,3.5,9,12,15,24	3000VAC	26.40x12.58x11.00	RoHS
	LS05-15BxxSS(-F)	5W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	4000VAC	40.00x12.80x20.00	RoHS
	LS05-13BxxR3 NEW	5W	85-305VAC/70-430VDC	3,3.5,9,12,15,24	3000VAC	26.40x14.73x11.00	RoHS
	LS08-13BxxSS(-F)	8W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	3000VAC	44.50x15.00x24.00	RoHS
	LS10-13BxxR3 NEW	10W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	3000VAC	32.00x17.20x15.05	RoHS
	LS10-13BxxR3P NEW	10W	85-305VAC/90-430VDC	3,3.5,9,12,15,24	3000VAC	28.84x17.20x14.05	RoHS
	LS15-13BxxSS(-F)	15W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	3000VAC	44.50x15.00x24.00	RoHS

85-264VAC input voltage AC/DC core board scheme LSC series

Core board	Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
	LSC20-20M03	11.55W	85-264VAC/100-370VDC	3.3	4000VAC	32.10x16.80x3.00	RoHS
	LSC20-20M05	15.5W	85-264VAC/100-370VDC	5	4000VAC	32.10x16.80x3.00	RoHS
	LSC20-20M09	20W	85-264VAC/100-370VDC	9	4000VAC	32.10x16.80x3.00	RoHS
	LSC20-20M12	20W	85-264VAC/100-370VDC	12	4000VAC	32.10x16.80x3.00	RoHS
	LSC20-20M15	20W	85-264VAC/100-370VDC	15	4000VAC	32.10x16.80x3.00	RoHS
	LSC20-20M24	20W	85-264VAC/100-370VDC	24	4000VAC	32.10x16.80x3.00	RoHS

1-5W non-isolated AC/DC converter LS-K3B series

SIP Package	Series	Power	Input Voltage Range	Output Voltage (VDC)	Output Current	Dimension (mm)	Markings
	LS01-K3BxxSS	1W	85-305VAC/70-430VDC	5	200mA	16.13x15.10x9.50	RoHS
	LS03-K3BxxSS	3W	85-305VAC/70-430VDC	12	250mA	16.13x15.10x9.50	RoHS
	LS05-K3BxxSS NEW	5W	85-305VAC/70-430VDC	12,15,18	330mA	16.13x15.10x9.50	RoHS

• Be careful: An electric shock may occur with non-isolated AC/DC converter as its non-isolated between primary side and secondary side.

Three-phase AC/DC power supply

Open Frame	Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
	LSC15-26M05	15W	45-528VAC/65-745VDC	Vo1: 5 Vo1/Vo2: 5/5,5/24 Vo1/Vo2/Vo3: 5/±5,5/±12,5/±15	4000VAC	37.00x20.00x4.60	RoHS
	LSC15-26M09	15W	45-528VAC/65-745VDC	9	4000VAC	37.00x20.00x4.60	RoHS
	LSC15-26M12	15W	45-528VAC/65-745VDC	12	4000VAC	37.00x20.00x4.60	RoHS
	LSC15-26M15	15W	45-528VAC/65-745VDC	15	4000VAC	37.00x20.00x4.60	RoHS
	LSC15-26M24	15W	45-528VAC/65-745VDC	24	4000VAC	37.00x20.00x4.60	RoHS

SIP Package	Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
	LS03-16BxxSS(-F)	3W	90-528VAC/100-745VDC	3,3.5,9,12,15,24	4000VAC	44.50x22.00x13.00	RoHS
	LS05-26BxxSS(-F)	5W	90-528VAC/100-745VDC	3,3.5,9,12,15,24	4000VAC	44.50x24.00x13.00	RoHS

DIP Package	Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
	LD03-16B	3W	90-528VAC/100-745VDC	3,3.5,9,12,15,24	3000VAC	50.80x25.40x15.16	RoHS
	LD10-26B	10W	90-528VAC/100-745VDC	3,3.5,9,12,15,24	4000VAC	62.00x45.00x30.00	RoHS
	LD20-26B	20W	90-528VAC/100-745VDC	3,3.5,9,12,15,24	4000VAC	70.00x48.00x30.00	RoHS

Open Frame	Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
	LO10-26D0512-04L	10.92W	57-528VAC/80-745VDC	5,1/12	4000VAC	80.00x40.00x35.00	RoHS
	LO15-26D1212-03	13.2W	57-528VAC/80-745VDC	12/12	4000VAC	80.00x40.00x35.00	RoHS
	LO15-26D1305-03	15W	57-528VAC/80-745VDC	5/13.5	4000VAC	80.00x40.00x35.00	RoHS

1-60W compact size LD/LDE series

DIP Package	Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
	LD01-10B	1W	85-305VAC/120-430VDC	3,3.5,9,12,15,24	3000VAC	33.70x22.20x18.00	RoHS
	LDE02-23B	2W	85-305VAC/120-430VDC	3,3.5,9,12,15,24	4000VAC	33.70x22.20x18.00	RoHS
	LD03-23BxxR2 NEW	3W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	4000VAC	25.40x25.40x17.60	RoHS
	LD05-23BxxR2 NEW	5W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	4000VAC	25.40x25.40x17.60	RoHS
	LD05-23BxxR2-M NEW	5W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	4000VAC	45.70x25.40x21.50	RoHS
	LD10-23BxxR2 NEW	10W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	4000VAC	40.00x25.4x21.00	RoHS
	LD10-23BxxR2-M NEW	10W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	4000VAC	47.60x26.80x23.50	RoHS
	LD15-23BxxR2 NEW	15W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	4000VAC	47.60x26.80x23.50	RoHS
	LD15-23BxxR2-M NEW	15W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	4000VAC	52.40x27.20x24.00	RoHS
	LD20-23BxxR2 NEW	20W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	4000VAC	52.40x27.20x24.00	RoHS

DIP Package	Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
	LDE03-20B-W	3W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	4000VAC	37.00x24.50x18.00	RoHS
	LD03-20B-WG	3W	85-264VAC/120-373VDC	5,12,24	4000VAC	32.30x27.30x21.80	RoHS
	LD03-20B-C	3W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	4000VAC	37.00x24.50x18.00	RoHS
	LDE05-20B-W	5W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	4000VAC	37.00x24.50x18.00	RoHS
	LD05-20B-C	5W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	4000VAC	37.00x24.50x18.00	RoHS
	LDE06-20B	6W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	4000VAC	50.80x25.40x15.36	RoHS
	LDE45-20B	45W	85-264VAC/100-370VDC	5,12,15,24,48	4000VAC	87.00x52.00x29.50	RoHS
	LDE60-20B	60W	85-264VAC/100-370VDC	5,12,15,24,48	4000VAC	87.00x52.00x29.50	RoHS

3W AC/DC converter LDE-O series (Transient power up to 12W)

DIP Package	Series	Power	Instantaneous power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
	LDE03-20Bxx-O	3W	12W/10S	85-264VAC/100-370VDC	3,3.5,9,12,15,24	4000VAC	37.00x24.50x18.00	RoHS

5-60W standard package AC/DC converter LH/LHE series

DIP Package	Series	Power	Input Voltage Range	Output Voltage Vo1 (VDC)	Output Voltage Vo2 (VDC)	Isolation	Dimension (mm)	Markings
	LH05-13B	5W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	/	3000VAC	55.00x45.00x21.00	RoHS
	LH10-23B NEW	10W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	/	4200VAC	55.00x45.00x21.00	RoHS
	LHE10-23B	10W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	/	4000VAC	55.00x45.00x21.00	RoHS
	LH15-23B NEW	15W	85-305VAC/100-430VDC	3,3.5,9,12,15,24,48	/	4200VAC	62.00x45.00x22.50	RoHS
	LHE15-23B	15W	85-305VAC/100-430VDC	3,3.5,9,12,15,24,48	/	4000VAC	62.00x45.00x22.50	RoHS
	LH20-13B	20W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	/	3000VAC	55.00x45.00x21.00	RoHS
	LH25-23B NEW	25W	85-305VAC/100-430VDC	3,3.5,9,12,15,24,48	/	4200VAC	70.00x48.00x23.50	RoHS
	LHE25-23B	25W	85-305VAC/100-430VDC	3,3.5,9,12,15,24,48	/	4000VAC	70.00x48.00x23.50	RoHS
	LHE40-23B	40W	85-305VAC/100-430VDC	3,3.5,12,15,24,48	/	4000VAC	89.00x63.50x25.00	RoHS
	LHE60-23B	60W	85-305VAC/100-430VDC	5,12,15,24,48	/	4000VAC	109.00x58.50x30.00	RoHS

A2 Chassis Mounting	Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings	
	LHE05-20B	5W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	/	4000VAC	48.50x36.00x20.50	RoHS
	LHE10-20B	10W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	/	4000VAC	55.00x45.00x21.00	RoHS
	LHE15-20B	15W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	/	4000VAC	62.00x45.00x22.50	RoHS
	LHE20-20B	20W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	/	4000VAC	62.00x45.00x22.50	RoHS
	LHE25-20B	25W	85-264VAC/100-370VDC	3,3.5,9,12,15,24,48	/	4000VAC	70.00x48.50x23.50	RoHS
	LHE40-20B	40W	85-264VAC/100-370VDC	3,3.5,12,15,24,48	/	4000VAC	89.00x63.50x25.00	RoHS
	LHE60-20B	60W	85-264VAC/100-370VDC	5,12,15,24,48	/	4000VAC	109.00x58.50x30.00	RoHS

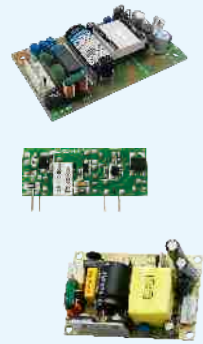
A5 Chassis Mounting	Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings	
	LHE05-20A	5W	85-264VAC/100-370VDC	+5,+12,+15	-5,-12,-15	4000VAC	48.50x36.00x20.50	RoHS
	LHE05-20C	5W	85-264VAC/100-370VDC	5	±5,±12,±15	4000VAC	48.50x36.00x20.50	RoHS
	LHE05-20D	5W	85-264VAC/100-370VDC	5	5,12,15,24	4000VAC	48.50x36.00x20.50	RoHS
	LHE10-20A	10W	85-264VAC/100-370VDC	+5,+12,+15	-5,-12,-15	4000VAC	55.00x45.00x21.00	RoHS
	LHE10-20C	10W	85-264VAC/100-370VDC	5	±12,±15	4000VAC	55.00x45.00x21.00	RoHS
	LHE10-20D	10W	85-264VAC/100-370VDC	5	5,12,15,24	4000VAC	55.00x45.00x21.00	RoHS
	LHE15-20A	15W	85-264VAC/100-370VDC	+5,+12,+15	-5,-12,-15	4000VAC	62.00x45.00x22.50	RoHS
	LHE15-20C	15W	85-264VAC/100-370VDC	5	±5,±12,±15	4000VAC	62.00x45.00x22.50	RoHS
	LHE15-20D	15W	85-264VAC/100-370VDC	5	5,12,24	4000VAC	62.00x45.00x22.50	RoHS
	LHE20-20A	20W	85-264VAC/100-370VDC					

AC/DC Converter

PV/PVA Series

3-120W Cost-effective open frame AC/DC converter LO series

Open Frame



Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
L010-13B	10W	85-305VAC/100-430VDC	3.3,5,9,12,15,24	3000VAC	60.00x42.00x16.30	RoHS CE
L015-23BxxE NEW	15W	85-305VAC/88-430VDC	3.3,5,12,15,24	4000VAC	87.50x50.00x22.00	RoHS CE
L030-23BxxE NEW	30W	85-305VAC/88-430VDC	3.3,5,12,15,24	4000VAC	105.00x50.00x30.00	RoHS CE
L050-23BxxE NEW	50W	85-305VAC/88-430VDC	3.3,5,9,12,15,24,27,48	4000VAC	132.00x50.00x26.00	RoHS CE
L003-10B	3W	85-264VAC/100-370VDC	3.3,5,9,12,15,24	3000VAC	42.00x16.00x17.00	RoHS
L005-12B	5W	165-264VAC/230-370VDC	3.3,5,9,12,15,24	3000VAC	42.00x16.00x17.00	RoHS
L015-10B	15W	85-264VAC/100-370VDC	3.3,5,9,12,15,24	3000VAC	63.50x45.70x19.00	RoHS UL CE
L030-10B	30W	85-264VAC/100-370VDC	3.3,5,9,12,15,24,48	3000VAC	76.20x50.80x27.00	RoHS UL CE
L045-10B	45W	85-264VAC/100-370VDC	3.3,5,9,12,15,24,48	3000VAC	76.20x50.80x30.00	RoHS UL CE
L045-20B NEW	45W	85-264VAC/100-370VDC	3.3,5,12,15,24,36,48	4000VAC	76.20x50.80x26.50	RoHS CE
L065-10B	65W	85-264VAC/100-370VDC	5,9,12,15,24,48	3000VAC	76.20x50.80x30.00	RoHS UL CE
L065-20B NEW	65W	85-264VAC/100-370VDC	3.3,5,12,15,24,36,48	4000VAC	76.20x50.80x26.50	RoHS CE
L0120-20B NEW	120W	85-264VAC/100-370VDC	12,15,24,27,36,48,54	4000VAC	101.60x50.80x32.00	RoHS

10W LO series specialized for flow-meter (Customization is acceptable)



Series	Power	Input Voltage Range	Output Available (Vo1/Vo2/Vo3)	Output Available (Vo4/Vo5)	Output Available (Vo6/Vo7)	Markings
L010-10J	10W	85-264VAC/120-370VDC	Triple outputs available (3.3V-24V)	Positive and negative voltage available ($\pm 5V$ to $\pm 24V$)	Positive and negative voltage available ($\pm 5V$ to $\pm 70V$)	RoHS

Ultra-wide input voltage non-isolated DC/DC single firewire power supply LSF Series

NEW
SIP Package



Series	Power	Input Voltage Range	Output Voltage Vo(VDC)	Output Voltage Vo1(VDC)	Dimension (mm)	Markings
LSF01-K5B	1W	15-380VDC	5.5,12.5	5V through peripheral	15.70x9.00x14.50	RoHS

DIP Package



5-25W AC/DC converter specialized for medical

Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
LD05-20BxxMU	5W	85-264VAC/100-370VDC	5,12,15,24	4000VAC	53.80x28.80x19.00	RoHS UL CE
LD08-20BY4	7.6W	85-264VAC/100-370VDC	3.8	4000VAC	45.70x25.40x15.20	RoHS UL CE
LD10-20B	10W	85-264VAC/100-370VDC	3.3,5,9,12,15,24	4000VAC	53.80x28.80x19.00	RoHS UL CE
LH15-20BxxMU	15W	85-264VAC/100-370VDC	5,12,15,18,24	4000VAC	62.00x45.00x22.50	RoHS CE
LH25-20BxxMU	25W	85-264VAC/100-370VDC	5,12,15,18,24	4000VAC	70.00x48.00x23.50	RoHS CE

DIP Package



10-30W AC/DC converter specialized for electric power

Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
L010-24B	10W	30-280VAC/30-400VDC	5,12,13	4000VAC	80.00x40.00x30.00	RoHS
L020-10C0512-01	18.7W	165-264VAC/230-370VDC	5, ± 12	3000VAC	70.00x48.00x23.50	RoHS
L030-10C0512-12	31.2W	85-264VAC/100-370VDC	5, ± 12	3000VAC	97.00x50.00x28.00	RoHS
LH10-10BxxER2	10W	85-264VAC/100-370VDC	5,12,24	3000VAC	62.00x45.00x30.00	RoHS
LHE10-20DxxER2	10W	85-264VAC/100-370VDC	5/12,5/24	4000VAC	62.00x45.00x30.00	RoHS
LH15-10BxxER2	15W	85-264VAC/100-370VDC	5,12,24	3000VAC	62.00x45.00x30.00	RoHS
LH15-10DxxER2	15W	85-264VAC/100-370VDC	5/12,5/24	3000VAC	62.00x45.00x30.00	RoHS
LH25-10BxxER2	25W	85-264VAC/100-370VDC	5,12,15,24	3000VAC	70.00x48.00x30.00	RoHS UL CE

SIP Package



3W AC/DC converter specialized for automotive electronics

Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Package	Dimension (mm)	Markings
CLS03-15A12SR2S	2.4W	85-264VAC/100-370VDC	± 12	3000VAC	SIP	35.00x21.00x13.00	RoHS
CLS03-15A12SR2S-QC	2.4W	85-264VAC/100-370VDC	± 12	3000VAC	SIP	35.00x21.00x13.00	RoHS



PV Series

- Specialized for PV industry
- Ultra-wide input voltage: 80-3300VDC
- Isolation: 4000VAC
- Operating temperature: -40°C to +85°C
- Operating altitude up to 5000m
- PCB, chassis mounting, DIN-Rail mounting, metal case packages

PVA Series

- Specialized for mining industry
- Ultra-wide input voltage: 85-1500VAC
- Isolation up to 4000VAC
- Simple wiring, compact size
- Immunity, EFT/Surge: $\pm 4KV$ perf. Criteria B

5-350W DC/DC converter specialized for PV industry



Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
PV05/10/15-27BxxR2	5W,10W,15W	100-1000VDC	5,9,12,15,24	4000VAC	70.00x48.00x23.50	RoHS CE
PV10-27C	10W	200-1200VDC	5/5/24	4000VAC	70.00x48.00x23.50	RoHS
PV15-27BxxR3 NEW	15W	100-1000VDC	12,15,24	4000VAC	70.00x48.00x23.50	RoHS CE
PV15-29BxxL	10W,15W	200-1500VDC	5,12,15,24	4000VAC	109.00x58.50x30.00	RoHS
PV15-29B	10W,15W	200-1500VDC	5,12,15,24	4000VAC	125.00x75.00x40.00	RoHS CE
PV15-29C	15W	200-1500VDC	5/5/5,5/5/24	4000VAC	89.00x63.50x25.00	RoHS
PV40-27B	40W	200-1200VDC	12,15,24	4000VDC	89.00x63.50x25.00	RoHS
PV40-29B	40W	200-1500VDC	12,15,24	4000VAC	125.00x75.00x40.00	RoHS UL CE
PV45-29D	45W	150-1500VDC	12V/15V/24V dual outputs (customization is acceptable)	4000VAC	144.50x105.00x40.00	RoHS
PV50-25B NEW	50W	80-750VDC	12,24	4000VAC	109.00x58.50x30.00	RoHS
PV50-29D	50W	150-1500VDC	12V/15V/24V dual outputs (customization is acceptable)	4000VAC	150.00x100.00x38.70	RoHS
PV60-27D	60W	200-1100VDC	12/15	4000VAC	162.00x269.00x32.00	RoHS
PV75-36D	75W	250-3300VDC	15,400	6000VAC	220.00x157.00x40.00	RoHS
PV120-27B	90W,100W,120W	200-1100VDC	12,15,24,26,28,48	4000VAC	144.50x105.00x40.00	RoHS
PV150-29B	120W,150W	250-1500VDC	12,15,24,28,32,48	4000VAC	168.00x111.20x42.50	RoHS UL CE
PV200-27B	120W,150W,200W	200-1000VDC	12,15,24,26,48	4000VAC	168.00x121.35x42.50	RoHS CE
PV200-29B	200W	300-1500VDC	24,32,48	4000VAC	215.00x125.00x50.00	RoHS CE
PV350-29B NEW	350W	300-1500VDC	24,28,32	4000VAC	215.00x125.00x50.00	RoHS UL CE

40-150W AC/DC converter specialized for mining industry



Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
PVA40-26B	40W	460-1500VAC	12,28,35	4200VAC	144.50x105.00x40.00	RoHS
PVA40-27B	40W	85-900VAC	18,24,30	4000VAC	138.00x82.00x32.00	RoHS
PVA70-27B	70W	85-900VAC	24,28,35	4000VAC	155.00x95.00x41.00	RoHS
PVA70-27B28-C	70W	85-900VAC	28.5	4000VAC	157.00x100.00x49.00	RoHS
PVA120-27B	120W	85-900VAC	24,28,35	4000VAC	170.00x107.00x52.00	RoHS
PVA120-27B-C	120W	85-900VAC	30,35	4000VAC	187.00x113.00x59.00	RoHS
PVA120-27B24-YL	120W	300-1200VDC/380VAC $\pm 20\%$	24	4000VAC	170.00x107.00x37.40	RoHS
PVA150-27Bxx	150W	85-850VAC	24,28,35	4000VAC	199.00x110.00x55.00	RoHS

DC/DC Converter

- $\pm 5\%$, $\pm 10\%$ input voltage tolerance
- Operating temperature up to 105°C
- High isolation up to 6000VDC
- Low ripple & noise
- Continuous short-circuit protection

K78 series

- Efficiency up to 96%
- Operating temperature: -40°C to $+85^{\circ}\text{C}$
- Continuous short-circuit protection
- Pin-out compatible with LM78xx linear regulators

DC/DC Converter

Fixed input voltage, isolated & regulated output series

SMD Package	Series	Power	Input Voltage (VDC)	Output Voltage (VDC)	Isolation	Package	Dimension (mm)	Markings
	IB_XT-W75R3	0.75W	5,12	3.3,5,9,12,15	1500VDC	SMD	13.20x11.40x7.25	RoHS CE
	IB_XT-1WR2	1W	5,12,24	3.3,5,12,15	1500VDC	SMD	15.24x11.20x7.25	RoHS CE
	IF_XT-1WR3	1W	5,12,24	3.3,5,9,12,15	3000VDC	SMD	15.24x11.20x7.25	RoHS CE
SIP Package	Series	Power	Input Voltage (VDC)	Output Voltage (VDC)	Isolation	Package	Dimension (mm)	Markings
	IB_S-W75R3	1W	5,12,24	3.3,5,12,15	1500VDC	SIP	11.60x6.00x10.16	RoHS CE
	IB_LS-1WR3	1W	5,12,15,24	3.3,5,9,12,15,24	1500VDC	SIP	19.65x6.00x10.16	RoHS CE
	IF_S-1WR3	1W	5,12,15,24	3.3,5,9,12,15	3000VDC	SIP	19.65x6.00x10.16	RoHS CE
	IE_KS-1WR3	1W	5	$\pm 5, \pm 9, \pm 12, \pm 15$	3000VDC	SIP	27.50x9.50x12.00	RoHS CE

Wide input voltage, non-isolated & regulated output series

NEW DFN Package	Series	Current (mA)	Input Voltage Range (VDC)	Output Voltage (VDC)	Package	Dimension (mm)	Markings
	K78_MT-500R4 NEW	500	4.5-36	$\pm 3.3, \pm 5, \pm 6.5, \pm 9, \pm 12, \pm 15$	DFN	9.00x7.00x3.10	RoHS
	K78_MT-1000R4 NEW	1000	4.75-36	$\pm 3.3, \pm 5, \pm 6.5, \pm 9, \pm 12, \pm 15$	DFN	9.00x7.00x3.10	RoHS
SIP Package	Series	Current (mA)	Input Voltage Range (VDC)	Output Voltage (VDC)	Package	Dimension (mm)	Markings
	K78-500R3	500/300/-150	4.75-36	3.3,5,9,12,15,-5,-12,-15	SIP	11.60x7.55x10.16	RoHS CE
	K78L-500R3	500/300/-150	4.75-36	3.3,5,12,15,-5,-12,-15	SIP	10.00x7.20x11.00	RoHS CE
	K78xxW-500R3	500/300/-150	4.75-36	3.3,5,9,12,15,-5,-12,-15	Wire	11.50x9.00x17.50	RoHS CE
	K78U-500R3(L) NEW	500	9-80	3.3,5,6.5,9,12,15	SIP	19.00x11.50x9.00(L)	RoHS
	K78-1000R3(L)	1000/500/300	6-36	3.3,5,9,12,15,-5,-12,-15	SIP	19.00x11.50x9.00(L)	RoHS CE
	K78L-1000R3	1000/500/300	6-36	3.3,5,12,15,-5,-12,-15	SIP	11.50x7.20x17.50	RoHS CE
	K78xxM-1000R3	1000/500/300	6-36	3.3,5,9,12,15,-5,-12,-15	SIP	11.60x8.00x10.40	RoHS CE
	K78-2000R3	2000	4.5-36	2.5,3.3,5,9,12,15	SIP	11.50x9.00x17.50	RoHS CE
	K78-3AR3	3000	8-36	3.3,5,6.5,9,12,15	SIP	32.15x9.05x18.95	RoHS
	SMD Package	Series	Current (mA)	Input Voltage Range (VDC)	Output Voltage (VDC)	Package	Dimension (mm)
	K78T-500R3	500	4.75-36	1.5,1.8,2.5,3.3,5,6.5,9,12,15	SMD	11.40x15.24x8.25	RoHS CE
	K78T-1000R3	1000/800	4.75-36	1.5,1.8,2.5,3.3,5,6.5,9,12	SMD	11.40x15.24x8.25	RoHS CE
	K78_JT-500R3	500	4.75-36	3.3,5,9,12,15	SMD	27.50x9.50x12.00	RoHS CE
	K12T-6A-P(N)	6000	8.3-14	0.75-5	SMD	20.30x11.40x6.62	RoHS CE
	K12T-10A/16A	10000/16000	8.3-14	0.75-5	SMD	33.02x13.50x8.32	RoHS CE
	KUB4812QB-10A	10000	16-75	12	DIP	59.2x37.60x13.00	RoHS CE
	KUB4824QB-10A	10000	30-75	24	DIP	59.2x37.60x13.00	RoHS CE

High output voltage, non-isolated & regulated output series

DIP Package	Series	Power (W)	Input Voltage Range (VDC)	Output Voltage Range (VDC)	Package	Dimension (mm)	Markings
	H01-P(N)1251V-0.5C	0.625	10.8-13.2	0~1250,0~+1250	DIP	45.50x23.00x12.50	RoHS
	H01-P(N)1251V-0.5F	0.625	21.6-26.4	0~1250,0~+1250	DIP	45.50x23.00x12.50	RoHS
	H01-P(N)1201-0.6B NEW	0.72	4.5-5.5	0~1200,0~+1200	DIP	15.00x15.00x18.00	RoHS
	H01-P(N)1501H-0.5C	0.75	10.8-13.2	0~1500,0~+1500	DIP	45.50x23.00x12.50	RoHS
	H01-P(N)1501H-0.5D	0.75	13.5-16.5	0~1500,0~+1500	DIP	45.50x23.00x12.50	RoHS
	H01-P(N)1251H-1B	1.25	4.75-5.25	0~1250,0~+1250	DIP	45.50x23.00x12.50	RoHS CE
	H01-P(N)1251H-0.5F	0.625	21.6-26.4	0~1250,0~+1250	DIP	45.50x23.00x12.50	RoHS
	H01-P(N)1251H-0.5C	0.625	10.8-13.2	0~1250,0~+1250	DIP	45.50x23.00x12.50	RoHS
	H01-P(N)1251H-0.5D	0.625	13.5-16.5	0~1250,0~+1250	DIP	45.50x23.00x12.50	RoHS
	H01-P601-2C	1.2	10.8-13.2	0~+600	DIP	46.00x25.70x15.50	RoHS
	H01-P401V-5C	2	10.8-13.2	0~+400	DIP	45.50x23.00x12.50	RoHS
	H01-P(N)502LD-0.4C NEW	2	10.8-13.2	0~+5000	DIP	74.60x38.10x28.50	RoHS
	H01-P102-10F	10	21.6-26.4	0~+1000	DIP	62.00x45.00x22.50	RoHS
	H01-P102D-12F NEW	15	9-26	0~+1000	DIP	62.00x45.00x22.50	RoHS
	H01-P102-30F	30	21.6-26.4	0~+1000	DIP	76.00x64.50x26.50	RoHS
	H01-P202-20D	40	14-18	0~+2000	DIP	80.00x55.00x28.00	RoHS
	H01-P102-20D	40	14-18	0~+1000	DIP	80.00x55.00x28.00	RoHS

SIP Package



DIP Package

+ 1-6W DC/DC converter specialized for medical

Series	Power	Input Voltage Range	Output Voltage (VDC)	Isolation	Dimension (mm)	Markings
G_S-1WR2	1W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15$	6000VDC	19.50x9.80x12.50	RoHS CE
H_S-1WR2	1W	3.3,5,12,15,24	3.3,5,12,15	6000VDC	19.50x9.80x12.50	RoHS CE
G_S-2WR2	2W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15$	6000VDC	19.50x9.80x12.50	RoHS CE
H_S-2WR2	2W	3.3,5,12,15,24	3.3,5,12,15	6000VDC	19.50x9.80x12.50	RoHS CE
URH_P-6WR3	6W	9-36,18-75	5,6,9,12,15,24	6000VDC	31.60x20.30x10.20	RoHS CE

Fixed input voltage, isolated & unregulated output series

NEW DFN Package	Series	Power	Input Voltage (VDC)	Output Voltage (VDC)	Isolation	Package	Dimension (mm)	Markings
	B_T-1WR4 NEW	1W	5,12,24	5,9,12,15,24	3000VDC	DFN	10.00x10.00x4.60	RoHS
	B_MT-1WR4 NEW	1W	5	5	3000VDC	DFN	9.00x7.00x3.10	RoHS CE
	D_T-1WR4 NEW	1W	5	5,5	3000VDC	DFN	13.20x7.00x3.10	RoHS CE
	E_T-1WR4 NEW	1W	12,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000VDC	DFN	13.00x10.00x4.60	RoHS CE
	FB_T-1WR4 NEW	1W	5	5	3000VAC	DFN	13.20x7.00x3.10	RoHS CE
	IF_T-1WR4 NEW	1W	5,12,24	3.3,5,9,12,15	3000VDC	DFN	13.00x10.00x4.60	RoHS
	B_T-2WR4 NEW	2W	5,12,24	3.3,5,9,12,15,24	3000VDC	DFN	10.00x10.00x4.60	RoHS
	E_T-2WR4 NEW	2W	5,12,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000VDC	DFN	13.00x10.00x4.60	RoHS
	SMD Package	Series	Power	Input Voltage (VDC)	Output Voltage (VDC)	Isolation	Package	Dimension (mm)
	A_XT-1WR3	1W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500VDC	SMD	15.24x11.40x7.25	RoHS CE
	B_XT-1WR3	1W	5,12,15,24	5,6,9,12,15,24	1500VDC	SMD	13.20x11.40x7.25	RoHS CE
	E_XT-1WR3	1W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000VDC	SMD	15.24x11.40x7.25	RoHS CE
	F_XT-1WR3	1W	5,12,15,24	5,6,9,12,15,24	3000VDC	SMD	13.20x11.40x7.25	RoHS CE
	FB0505XT-1WR3	1W	5	5	4200VDC	SMD	15.24x11.40x7.25	RoHS
	B_XT-2WR3	2W	5,12,15,24	5,9,12,15,24	1500VDC	SMD	12.70x11.20x7.25	RoHS CE
	F_XT-2WR3	2W	5,12,15,24	5,9,12,15,24	3000VDC	SMD	12.70x11.20x7.25	RoHS CE
SIP Package	Series	Power	Input Voltage (VDC)	Output Voltage (VDC)	Isolation	Package	Dimension (mm)	Markings
	A_S-1WR3	1W	5,9,12,15,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500VDC	SIP	19.65x6.00x10.16	RoHS CE
	B_LS-1WR3	1W	5,12,15,24	3.3,5,9,12,15,24	1500VDC	SIP	19.65x6.00x10.16	RoHS CE
	B_S-1WR3	1W	5,12,15,24	3.3,5,9,12,15,24	1500VDC	SIP	11.60x6.00x10.16	RoHS CE
	E_S-1WR3	1W	5,9,12,15,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000VDC	SIP	19.65x6.00x10.16	RoHS CE
	F_S-1WR3	1W	5,9,12,15,24	3.3,5,9,12,15,24	3000VDC	SIP	19.65x6.00x10.16	RoHS CE
	G_S-1WR2	1W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15$	6000VDC	SIP	19.50x9.80x12.50	RoHS CE
	H_S-1WR2	1W	3.3,5,12,24	3.3,5,12,15	6000VDC	SIP	19.50x9.80x12.50	RoHS CE
	A_S-2WR3	2W	5,12,15,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500VDC	SIP	19.65x7.05x10.16	RoHS CE
	B_S-2WR3	2W	5,12,15,24	5,9,12,15,24	1500VDC	SIP	19.65x7.05x10.16	RoHS CE
	E_S-2WR3	2W	5,12,15,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000VDC	SIP	19.65x7.05x10.16	RoHS CE
	F_S-2WR3	2W	5,12,15,24	5,9,12,15,24	3000VDC	SIP	19.65x7.05x10.16	RoHS CE
	G_S-2WR2	2W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15$	6000VDC	SIP	19.50x9.80x12.50	RoHS CE
	H_S-2WR2	2W	5,12,15,24	5,12,15	6000VDC	SIP	19.50x9.80x12.50	RoHS CE
	B_S-3WR2	3W	5,12	5,9,12	1500VDC	SIP	19.65x7.05x10.16	RoHS CE
F_S-3WR2	3W	5,12,15	5,9,12,15	3000VDC	SIP	19.65x7.05x10.16	RoHS CE	
DIP Package	Series	Power	Input Voltage (VDC)	Output Voltage (VDC)	Isolation	Package	Dimension (mm)	Markings
	B05_LD-1WR2	1W	5	5,50,60	1500VDC	DIP	20.32x10.16x8.20	RoHS
	F_N-1WR3	1W	5,12,24	3.3,5,9,12,15,24	3000VDC	DIP	12.70x10.16x8.20	RoHS CE
	A_D-1WR2	1W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500VDC	DIP	20.00x10.00x7.00	RoHS
	B_D-1WR3	1W	5,12,15,24	3.3,5,9,12,15,24	1500VDC	DIP	12.70x10.16x8.20	RoHS CE
	E_D-1WR3	1W	5,12,24	$\pm 5, \pm 9, \pm 12, \pm 15$	3000VDC	DIP	20.00x10.00x7.00	RoHS CE
	F_D-1WR2	1W	3.3,5,12,15,24	3.3,5,12,15	3000VDC	DIP	20.00x10.00x7.00	RoHS CE
	A_D-2WR2	2W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500VDC	DIP	20.32x10.16x8.20	RoHS CE
	B_D-2WR2	2W	3.3,5,9,12,24	3.3,5,9,12,15,24	1500VDC	DIP	20.32x10.16x8.20	RoHS CE
	E_D-2WR3	2W	5,12,15,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000VDC	DIP	20.32x10.16x8.20	RoHS CE
	F_D-2WR2	2W	5,12,15,24	5,9,12,15,24	3000VDC	DIP	20.32x10.16x8.20	RoHS CE



- 2:1, 4:1 input voltage range
- SIP, DIP, SMD, chassis mounting, DIN-Rail mounting
- Remote On/Off and output voltage trimming
- No overshoot voltage when switching
- EMI meets CISPR32/EN55032 CLASS A
- Continuous short-circuit protection, self-recovery

Wide input voltage, isolated & regulated output series

SIP Package



Wide input (2:1)

Series	Power	Input Voltage Range(VDC)	Output Voltage (VDC)	Isolation	Package	Dimension (mm)	Markings
WRA_S-1WR2	1W	4.5-9,9-18,18-36,36-75	±5, ±9, ±12, ±15	1500VDC	SIP	9.00x7.00x3.10	RoHS CE
WRB_S-1WR2	1W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	1500VDC	SIP	13.20x7.00x3.10	RoHS CE
WRE_S-1WR2	1W	4.5-9,9-18,18-36,36-75	±5, ±12, ±15	3000VDC	SIP	13.20x7.00x3.10	RoHS CE
WRF_S-1WR2	1W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	3000VDC	SIP	13.20x7.00x3.10	RoHS CE
WRA_S-3WR2	3W	4.5-9,9-18,18-36,36-75	±5, ±9, ±12, ±15, ±24	1500VDC	SIP	22.00x9.50x12.00	RoHS CE
WRB_S-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,6,9,12,15,24	1500VDC	SIP	22.00x9.50x12.00	RoHS CE
WRE_S-3WR2	3W	4.5-9,9-18,18-36,36-75	±5, ±9, ±12, ±15	3000VDC	SIP	22.00x9.50x12.00	RoHS CE
WRF_S-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	3000VDC	SIP	22.00x9.50x12.00	RoHS CE
VRB_S-6WR3	6W	9-18,18-36	3.3,5,9,12,15,24	1600VDC	SIP	22.00x9.50x12.00	RoHS CE
VRB_S-10WR3	10W	9-18,18-36	3.3,5,9,12,15,24	1500VDC	SIP	22.00x9.50x12.00	RoHS CE

NEW



WRA_SD/T-1WR2	1W	9-18,18-36	±5, ±9, ±12, ±15	1500VDC	DIP/SMD	15.00x14.00x9.10(ST)	RoHS CE
WRB_SD/T-1WR2	1W	9-18,18-36	3.3,5,12,15,24	1500VDC	DIP/SMD	15.00x14.00x9.10(ST)	RoHS CE
WRA_SD/T-3WR2	3W	9-18,18-36	±5, ±9, ±12, ±15	1500VDC	DIP/SMD	15.00x14.00x9.10(ST)	RoHS CE
WRB_SD/T-3WR2	3W	9-18,18-36	3.3,5,12,15,24	1500VDC	DIP/SMD	15.00x14.00x9.10(ST)	RoHS CE



WRE_P-3WR2	3W	4.5-9,9-18,18-36,36-75	±3.3, ±5, ±9, ±12, ±15	3000VDC	DIP,plastic	31.60x20.30x10.20	RoHS CE
WRF_P-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,12,15,24	3000VDC	DIP,plastic	31.60x20.30x10.20	RoHS CE
WRA_ZP-3WR2	3W	4.5-9,9-18,18-36,36-75	±5, ±9, ±12, ±15, ±24	1500VDC	DIP,metal	32.00x20.00x10.80	RoHS CE
WRB_ZP-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	1500VDC	DIP,metal	32.00x20.00x10.80	RoHS CE
VRA_ZP-6WR3	6W	4.5-9,9-18,18-36,36-75	±5, ±12, ±15, ±24	1500VDC	DIP,metal	32.00x20.00x10.80	RoHS CE
VRB_ZP-6WR3	6W	4.5-9,9-18,18-36,36-75	3.3,5,12,15,24	1500VDC	DIP,metal	32.00x20.00x10.80	RoHS CE
VRA_ZP-10WR3	10W	9-18,18-36,36-75	±5, ±12, ±15	1500VDC	DIP,metal	32.00x20.00x10.80	RoHS CE
VRB_ZP-10WR3	10W	9-18,18-36,36-75	3.3,5,12,15,24	1500VDC	DIP,metal	32.00x20.00x10.80	RoHS CE



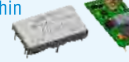
VRB_LD-15WR3	15W	18-36,36-75	3.3,5,12,15,24	1500VDC	DIP	50.80x25.40x11.80	RoHS CE
VRA_LD-20WR3	20W	9-18,18-36,36-75	±5, ±9, ±12, ±15, ±24	1500VDC	DIP	50.80x25.40x11.80	RoHS CE
VRB_LD-20WR3	20W	9-18,18-36,36-75	3.3,5,9,12,15,24,110	1500VDC	DIP	50.80x25.40x11.80	RoHS CE
VRB_LD-30WR3	30W	18-36,36-75	3.3,5,9,12,15,24	1500VDC	DIP	50.80x25.40x11.80	RoHS CE
VRB_LD-40WHR3	40W	18-36,36-75	5,12,15,24	1500VDC	DIP	51.40x26.20x16.50	RoHS CE
VRB_LD-50W(H)R3	50W	18-36,36-75	3.3,5,12,15,24	1500VDC	DIP	50.80x25.40x11.80	RoHS

DIP Package



VRA_YMD-6WR3	6W	9-18,18-36	±5, ±12, ±15	1500VDC	DIP	25.40x25.40x11.70	RoHS CE
VRB_YMD-6WR3	6W	9-18,18-36,36-75	3.3,5,9,12,15,24	1500VDC	DIP	25.40x25.40x11.70	RoHS CE
VRA_YMD-10WR3	10W	4.5-9	±5, ±12, ±15, ±24	1500VDC	DIP	25.40x25.40x11.70	RoHS CE
VRB_YMD-10WR3	10W	4.5-9,9-18,18-36,36-75	3.3,5,12,15,24	1500VDC	DIP	25.40x25.40x11.70	RoHS CE
VRB_YMD-15WR3	15W	9-18,18-36,36-75	3.3,5,12,15,24	1500VDC	DIP	25.40x25.40x11.70	RoHS CE
VRB_YMD-20WR3	20W	9-18,18-36,36-75	3.3,5,12,15,24	1500VDC	DIP	25.40x25.40x11.70	RoHS CE

Ultra-thin



VRB_J(M)D/T-3W	3W	4.5-9,9-36	3.3,5,12,15,24	1500VDC	DIP/SMD	26.20x16.40x6.80	RoHS CE
VRB_J(M)D/T-6W	6W	9-18,18-36	3.3,5,12,15	1500VDC	DIP/SMD	33.78x19.10x7.00	RoHS CE

SIP Package



Ultra-wide input (4:1)

Series	Power	Input Voltage Range(VDC)	Output Voltage (VDC)	Isolation	Dimension (mm)	Package	Markings
UWE_S-1WR3	1W	4.5-36	±5, ±12, ±15	3000VDC	22.00x9.50x12.00	SIP	RoHS CE
UWF_S-1WR3	1W	4.5-36	5,12,15	3000VDC	22.00x9.50x12.00	SIP	RoHS CE
UWE_S-3WR3	3W	4.5-36	±5, ±12, ±15	3000VDC	22.00x9.50x12.00	SIP	RoHS CE
UWF_S-3WR3	3W	4.5-36	5,12,15	3000VDC	22.00x9.50x12.00	SIP	RoHS CE
URD_S-3WR3	3W	18-75	5/5,5/12,5/24	3000VDC	27.40x9.50x12.00	SIP	RoHS CE
URB_S-6WR3	6W	9-36	3.3,5,9,12,15,24	1600VDC	22.00x9.50x12.00	SIP	RoHS CE
URB_S-10WR3	10W	9-36	3.3,5,9,12,15,24	1500VDC	22.00x9.50x12.00	SIP	RoHS CE

DIP Package



URH_P-6WR3	6W	9-36,18-75	5,6,9,12,15,24	6000VDC	31.60x20.30x10.20	DIP,plastic	RoHS CE
URE_P-6WR3	6W	9-36	±5, ±12, ±15	3000VDC	31.60x20.30x10.20	DIP,plastic	RoHS CE
URF_P-6WR3	6W	9-36,18-75	3.3,5,9,12,15,24,25	3000VDC	31.60x20.30x10.20	DIP,plastic	RoHS CE
PWB_ZP-3WR2	3W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	32.00x20.00x10.80	DIP,metal	RoHS CE
URA_ZP-6WR3	6W	9-36,18-75	±5, ±9, ±12, ±15, ±24	1500VDC	32.00x20.00x10.80	DIP,metal	RoHS CE
URB_ZP-6WR3	6W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	32.00x20.00x10.80	DIP,metal	RoHS CE
URA_ZP-10WR3	10W	9-36,18-75	±5, ±12, ±15	1500VDC	32.00x20.00x10.80	DIP,metal	RoHS CE
URB_ZP-10WR3	10W	9-36,18-75	3.3,5,12,15,24	1500VDC	32.00x20.00x10.80	DIP,metal	RoHS CE

DIP Package



URA_YMD-6WR3	6W	9-36,18-75	±5, ±12, ±15, ±24	1500VDC	25.40x25.40x11.70	DIP	RoHS CE
URB_YMD-6WR3	6W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	25.40x25.40x11.70	DIP	RoHS CE
URA_YMD-10WR3	10W	9-36,18-75	±5, ±9, ±12, ±15, ±24	1500VDC	25.40x25.40x11.70	DIP	RoHS CE
URB_YMD-10WR3	10W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	25.40x25.40x11.70	DIP	RoHS CE
URD_YMD-10WR3	10W	18-75	5/5,5/12,5/24	1500VDC	25.40x25.40x11.70	DIP	RoHS CE
URA_YMD-15WR3	15W	9-36,18-75	±5, ±12, ±15, ±24	1500VDC	25.40x25.40x11.70	DIP	RoHS CE
URB_YMD-15WR3	15W	9-36,18-75	3.3,5,12,15,24	1500VDC	25.40x25.40x11.70	DIP	RoHS CE
URA_YMD-20WR3	20W	9-36,18-75	±5, ±12, ±15, ±24	1500VDC	25.40x25.40x11.70	DIP	RoHS CE
URB_YMD-20WR3	20W	9-36,18-75	3.3,5,6,12,15,24	1500VDC	25.40x25.40x11.70	DIP	RoHS CE
URA_YMD-30WR3	30W	18-75	±12, ±15, ±24	1500VDC	25.40x25.40x11.70	DIP	RoHS
URB_YMD-30WR3	30W	18-75	5,12,15,24	1500VDC	25.40x25.40x11.70	DIP	RoHS

DIP Package



URE_LP-10WR3	10W	9-36,18-75	±5, ±12, ±15	3000VDC	51.50x26.50x12.00	DIP,plastic	RoHS CE
URF_LP-10WR3	10W	9-36,18-75	3.3,5,9,12,15,24	3000VDC	51.50x26.50x12.00	DIP,plastic	RoHS CE
URH_LP-20WR3	20W	9-36,18-75	3.3,5,9,12,15,24	3000VDC	51.50x26.50x12.00	DIP,plastic	RoHS CE
URA_LD-20WR3	20W	9-36,18-75	±5, ±9, ±12, ±15	1500VDC	50.80x25.40x11.80	DIP,metal	RoHS CE
URB_LD-20WR3	20W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	50.80x25.40x11.80	DIP,metal	RoHS CE
URD_LD-20WR3	20W	18-75	5/5,5/12,5/24	3000VDC	50.80x25.40x11.80	DIP,metal	RoHS CE
URA_LD-30WR3	30W	9-36,18-75	±5, ±12, ±15, ±24	1500VDC	50.80x25.40x11.80	DIP,metal	RoHS CE
URB_LD-30WR3	30W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	50.80x25.40x11.80	DIP,metal	RoHS CE
URD_D-30WR3	30W	18-75	5/24	3000VAC	70.00x48.00x26.00	DIP,metal	RoHS CE

DIP Package



URF_QB-75WR3	75W	18-75	5,12,15,24,48	2250VDC	62.00x56.00x14.60	DIP	RoHS CE
URF_QB-100WR3	100W	9-36,18-75	5,12,15,24,28,48	2250VDC	62.00x56.00x14.60	DIP	RoHS CE
URF_QB-150WR3	150W	18-75	5,12,15,24,48	2250VDC	62.00x56.00x14.60	DIP	RoHS CE
URF_QB-200WR3	200W	18-75	5,12,15,24,48	2250VDC	62.00x56.00x14.60	DIP	RoHS CE

Ultra-thin



URB_MT-3WR3	3W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	19.20x18.10x10.16	SMD	RoHS CE
URB_J(M)D/T-3W	3W	9-36	3.3,5,12,15,24	1500VDC	26.20x16.40x6.80	DIP/SMD	RoHS CE
URB_J(M)D/T-10W	10W	9-36	5,12,15	1500VDC	41.40x22.00x7.00	DIP/SMD	RoHS CE
URB_J(M)D/T-15W	15W	9-36,18-75	3.3,5,12,15	1500VDC	39.90x29.50x6.80	DIP/SMD	RoHS CE

NEW

Communication



DC/DC converter specialized for communications industry

Series	Power	Input Voltage Range(VDC)	Output Voltage (VDC)	Isolation	Dimension (mm)	Package	Markings
VCB48_S0-3WR3	3W	36-75	5,12,15,24	1500VDC	22.00x8.20x12.80	SIP	RoHS CE
VCB48_S0-6WR3	6W	36-75	5,12,15,24	1500VDC	22.00x8.20x12.80	SIP	RoHS CE
VCB48_S0-10WR3	10W	36-75	5,12,15,24	1500VDC	33.02x22.86x10.27	DIP	RoHS
VCB48_S0-20WR3	20W	36-75	3.3,5,12,15,24,28	1500VDC	33.00x23.00x11.47	DIP	RoHS
VCB48_S0-30WR3	30W	36-75	5,12,15,24	1500VDC	33.02x22.86x9.18	DIP	RoHS
VCB48_EBO-100WR3	100W	36-75	5,12,15,24,28	1500VDC	58.42x22.86x9.69	DIP	RoHS
VCB48_QBO-200WR3	200W	36-75	5,12,15,24,28,48	1500VDC	58.40x36.80x12.94	DIP	RoHS
VCF48_QBO-400W(F/H)R3	400W	36-75	12,15,24,28	2250VDC	57.90x36.80x12.90	DIP	RoHS

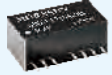
DC/DC Converter

IGBT Driver/EMC Auxiliary Device

SMD Package



SIP Package



DIP Package



DC/DC converter specialized for automotive electronics (IATF16949)

Series	Power	Input Voltage Range(VDC)	Output Voltage (VDC)	Isolation	Package	Dimension (mm)	Markings
CF0505XT-1WR3	1W	4.5-5.5	5	3500VDC	SMD	13.20x11.40x7.25	RoHS CE
CFB0505XT-1WR3	1W	4.5-5.5	5	4200VDC	SMD	15.24x11.40x7.25	RoHS CE
CWRF_S-3W	3W	7-18	15	4300VDC	SIP	22.00x9.50x12.00	RoHS
CVRC_JD-6WR3	6W	9-18	15	3000VDC	SMD	42.10x25.00x10.50	RoHS CE
CUWF_J(Y)T-3WR3	3W	6-42	5, 12, 15, 24	3000VAC	SMD	43.68x25.00x10.64	RoHS CE
CUWF_J(Y)T-6WR3	6W	6-42	5, 12, 15, 24	3000VAC	SMD	43.68x25.00x10.64	RoHS CE
CUWB_YMD-6WR3	6W	4.5-36	3, 3.5, 12, 15, 24	1500VDC	DIP	25.40x25.40x11.70	RoHS CE
CUWF_YMD-8WR3	8W	4.5-36	15	2600VAC	DIP	25.40x25.40x11.70	RoHS
UW2405D-20W	20W	6-50	5	1500VDC	DIP, metal	50.80x40.60x11.80	RoHS
UWD240512D-20W	20W	6-60	5, 12	1500VDC	DIP, metal	50.80x40.60x11.80	RoHS

DIP Package



DC/DC converter for IGBT driver of automotive electronics

Series	Input Voltage (VDC)	Input Voltage Range(VDC)	Positive/Negative Output(VDC)	Output Current(mA)	Isolation	Dimension (mm)	Markings
CQAW01	12	7-18	+15/-9	+200/-200	3000VAC	31.60x20.30x10.20	RoHS

LMD: 2x1 (In-pin) / LD: 2x1 (Off-pin)



2x1, 1x1 inch



1/4, 1/2 Brick



A7 suffix: Integrated mounting

DC/DC converter specialized for rail transit

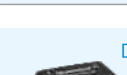
Series	Power	Input Voltage Range(VDC)	Output Voltage (VDC)	Isolation	Package	Dimension (mm)	Markings
URA1D_YMD-6WR3	6W	40-160	±5, ±12, ±15	2250VDC	DIP	25.40x25.40x11.70	RoHS CE
URB1D_YMD-6WR3	6W	40-160	5, 12, 15, 24	2250VDC	DIP	25.40x25.40x11.70	RoHS CE
URA1D_X)LMD-10WR3	10W	40-160	±5, ±12, ±15	2250VDC	DIP	50.80x25.40x11.80	RoHS CE
URB1D_LMD-10WR3	10W	40-160	3, 3.5, 12, 15, 24	2250VDC	DIP	50.80x25.40x11.80	RoHS CE
URB1D_LMD-15WR3	15W	40-160	3, 3.5, 12, 15, 24	2250VDC	DIP	50.80x25.40x11.80	RoHS CE
URB1D_LMD-20WR3	20W	40-160	3, 3.5, 12, 15, 24	2250VDC	DIP	50.80x25.40x11.80	RoHS CE
URB1D_LD-20WR3	20W	40-160	3, 3.5, 12, 15, 24	2250VDC	DIP	50.80x25.40x11.80	RoHS CE
URE1D_LD-20WR3	20W	40-160	±12, ±15, ±24	3000VDC	DIP	50.80x25.40x11.80	RoHS
URF1D_LD-40WR3	40W	40-160	3, 3.5, 12, 15, 24, 48	3000VDC	DIP	50.80x25.40x11.80	RoHS CE
URF1D_QB-50WR3	50W	43-160	3, 3.5, 12, 15, 24, 48	3000VAC	DIP	60.80x39.20x12.70	RoHS CE
URF1D_QB-75WR3	75W	43-160	3, 3.5, 12, 15, 24, 48	3000VAC	DIP	60.80x39.20x12.70	RoHS CE
URF1D_QB-100WR3	100W	43-160	3, 3.5, 12, 15, 24, 48	3000VAC	DIP	60.80x39.20x12.70	RoHS CE
URF1D_HB-150WR3	150W	43-160	5, 12, 15, 24, 48	3000VAC	DIP	61.00x57.90x13.80	RoHS CE
URF1D_HB-250WR3	250W	40-160	5, 12, 15, 24, 48, 54	3000VAC	DIP	61.00x57.90x13.80	RoHS CE
URF1D_HB-250WR3A7	250W	43-160	5, 12, 15, 24, 48, 54	3000VAC	Chassis mounting	165.00x78.00x41.50	RoHS CE
URF1D-FB-400W(H)R3	400W	66-160	5, 9, 12, 15, 24, 28, 48, 54	3000VAC	DIP		RoHS CE
UWTH1D-QB-50WR3 NEW	50W	14-160	3, 5, 12, 15, 24, 48, 54	3000VAC	DIP	57.90x36.80x12.70	RoHS CE
UWTH1D-QB-100WR3 NEW	100W	14-160	12, 15, 24, 28, 48, 54	3000VAC	DIP	57.90x37.80x12.70	RoHS CE
UWTH1D-HB-100WR3 NEW	100W	14-160	12, 24, 28, 48, 54	3000VAC	DIP	62.00x37.80x14.00	RoHS CE
UWTH1D-HB-200W(H)R3 NEW	200W	14-160	12, 24, 28, 48, 54	3000VAC	DIP	62.00x37.80x14.00	RoHS CE

1/4, 1/2 Brick

DIP Package



DIP Package



DC/DC converter specialized for super-capacitor and lithium battery-powered

Series	Input Voltage (VDC) Nominal (Range)	Output Voltage (VDC)	Constant Current(mA)	Isolation	Package	Dimension (mm)	Markings
URF2428LP-700	9-36 (24VDC)	0-28.5	700	4200VDC	SMD	51.50x26.50x12.00	RoHS
URB24A5YMD-1000	9-36 (24VDC)	0-5.06	1000	1500VDC	SMD	25.40x25.40x11.70	RoHS

Series	Input Voltage Range	Output Voltage (VDC)	No. of Outputs	Isolation	Package	Dimension (mm)	Markings
MBP2403YMD-3A	16-32VDC	2-3.65	1	1000VDC	DIP	25.40x25.40x11.70	RoHS CE
MBP4803YMD-3A	30-60VDC	2-3.65	1	1000VDC	DIP	25.40x25.40x11.70	RoHS CE

DC/DC converter for SiC gate driver

Series	Input Voltage (VDC)	Input Voltage Range(VDC)	Positive/Negative Output(VDC)	Output Current(mA)	Effi(%) (Typ)	Isolation	Markings
QA01C	15	13.5-16.5	+20/-4	+100/-100	80	3500VAC	RoHS CE
QA051C	5	4.5-5.5	+20/-5	+80/-40	79	3000VAC	RoHS
QA1201C-20	12	10.8-13.2	+20/-4	+100/-100	80	3500VAC	RoHS
QA121C2	12	10.8-13.2	+15/-3.5	+111/-111	81	3500VAC	RoHS
QA121C-20	12	10.8-13.2	+20/-5	+100/-100	79	3500VAC	RoHS
QA151C	15	13.5-16.5	+20/-5	+80/-40	78	3500VAC	RoHS
QA01C-18	15	13.5-16.5	+18/-3	+100/-100	79	3500VAC	RoHS
QA151C3	15	13.5-16.5	+15/-4	+100/-100	82	3000VDC	RoHS
QA151M	15	14.4-15.9	+15/-5	+100/-100	80	3500VAC	RoHS
QA2401C-20	24	21.6-26.4	+20/-4	+100/-100	80	3500VAC	RoHS

DC/DC converter for IGBT driver

Series	Input Voltage (VDC)	Input Voltage Range(VDC)	Positive/Negative Output(VDC)	Output Current(mA)	Effi(%) (Typ)	Isolation	Markings
QA01-A09	15	14.5-15.5	+9/-9	+55/-55	80	3000VAC	RoHS CE
QA01-09	15	14.5-15.5	+9/-	+111/-	80	3000VAC	RoHS CE
QA01	15	14.5-15.5	+15/-8.7	+80/-40	80	3000VAC	RoHS CE
QA03	24	23.3-24.7	+15/-8.7	+80/-40	80	3000VAC	RoHS CE
QA241	24	22.8-25.2	+15/-8	+120/-120	81	3000VAC	RoHS
QA151	15	14.25-15.75	+15/-8	+120/-120	81	3000VAC	RoHS
QA121	12	11.4-12.6	+15/-8	+120/-120	81	3000VAC	RoHS
QA04	12	9-15	+15/-8	+100/-80	80	3000VAC	RoHS CE
QA02	12	11.6-12.4	+15/-8.7	+80/-40	80	3000VAC	RoHS CE
QA01-17	15	14.5-15.5	+17/-8.7	+80/-40	77	3000VAC	RoHS CE
QA15115R2	15	13.5-16.5	+15/-2.5	+100/-100	80	3500VAC	RoHS
QA156D-24	15	13.5-16.5	+24	+150	80	12000VDC	RoHS
QA152D	15	13.5-16.5	+15/-9	+200/-200	83	4000VAC	RoHS
QAU242D2G	24	9-36	+24/+24	+150/+150	85	4200VAC	RoHS
QAW02	24	18-36	+15/-9	+200/-200	85	3000VDC	RoHS
QAW01	12	9-18	+15/-9	+200/-200	85	3500VAC	RoHS

Hybrid integrated IGBT driver

Series	VCE (max.)	Power Supply VCC(VDC)	Power Supply VEE(VDC)	Gate Voltage	Output Peak Current	Max. Frequency	Driving Channels	Isolation
QC962-8A	1700V	15	-10	+15V/-9V	±8A	40KHz	1	3750VAC

Hybrid integrated IGBT driver (Built-in isolated DC/DC converter)

Series	VCE (max.)	Power Supply VCC(VDC)	Gate Voltage	Output Peak Current	Max. Frequency	Driving Channels	Isolation	Markings
QP12W08S-37	1700V	15	+15V/-9V	±8A	20KHz	1	3750VAC	RoHS CE
QP12W08S-37A	1700V	12	+15V/-9V	±8A	20KHz	1	3750VAC	RoHS CE

EMC Auxiliary Device

Series	Function	Input Voltage Range	Max. Output Power/Current	Markings
FC-LX1D	EMC Filter	85-305VAC	1.5A	RoHS
FC-LX1D2	EMC Filter	85-305VAC	1.5A	RoHS
FC-L01DV1	EMC Filter	85-305VAC	0.3A	RoHS
FC-A01D	EMC Filter	9-36VDC	1A	RoHS
FC-AX3D	EMC Filter	10-36VDC	30W	RoHS
FC-B01D	EMC Filter	18-75VDC	1A	RoHS
FC-B02D	EMC Filter	18-75VDC	30W	RoHS
FC-D03D	EMC Filter	18-36VDC	50W	RoHS
FC-E03D	EMC Filter	36-75VDC	75W	RoHS
FC-C01D	EMC Filter	40-160VDC	10W	RoHS
FC-CX1D	EMC Filter	40-160VDC	30W	RoHS
FC-C03D	EMC Filter	40-160VDC	50W	RoHS
FC-CX3D	EMC Filter	66-160VDC	100W	RoHS
FI-B03D	EMI Filter	0-80VDC	3A	RoHS
FS-TD01D	485-AB Bus Surge Protection Module	0-5VDC	≤0.1	RoHS
FT-AX1D	EFT Suppressor	0-40VDC	1.5A	RoHS
FT-BX1D	EFT Suppressor	0-80VDC	1.5A	RoHS
FL2D	Common Mode Filter	/	0.5, 1, 3A	RoHS

Industrial Bus Isolation Transceiver Module/ Isolation Transmitter Selection Guide

Signal Conditioning Module/LED driver Transformer Selection Guide

Industrial Bus Isolation Transceiver Module

Series	Function	Power Supply	Data Rate	Nodes	Markings
TD041S485H NEW	DFN package isolated RS485 Transceiver	2.375-5.5, 4.5-5.5VDC	1Mbps	256	RoHS
TD(H)541S485H NEW	DFN package isolated RS485 Transceiver	4.75-5.25VDC	1Mbps	256	RoHS
TD041S485S-F NEW	full duplex DFN package isolated RS485 transceiver	2.375-5.5, 4.5-5.5VDC	20Mbps	256	RoHS
TD(H)541S485S-F NEW	full duplex DFN package isolated RS485 transceiver	4.5-5.5VDC	20Mbps	256	RoHS
TD041S485H-A NEW	DFN package isolated RS485 transceiver(automatic switching)	2.375-5.5, 4.5-5.5VDC	500kbps	256	RoHS
TD(H)541S485H-A NEW	DFN package isolated RS485 transceiver(automatic switching)	4.5-5.5VDC	500kbps	256	RoHS
TD041S485S NEW	Ultrahigh speed DFN package isolated RS485 transceiver	2.375-5.5, 4.5-5.5VDC	20Mbps	256	RoHS
TD(H)541S485S NEW	Ultrahigh speed DFN package isolated RS485 transceiver	4.5-5.5VDC	20Mbps	256	RoHS
TD321/521D485-L	Low power consumption single RS485 isolated transceiver module	3.17-3.45, 4.75-5.25VDC	19.2kbps	16	RoHS CE
TD331/531S485-L	Low power consumption SMD single high-rate RS485 isolated transceiver module	3.15-3.45, 4.75-5.25VDC	19.2kbps	16	RoHS CE
TD321/521D485	Cost-effective single RS485 isolated transceiver module	3.15-3.45, 4.75-5.25VDC	19.2kbps	64	RoHS CE
TD321/521S485	Cost-effective SMD single RS485 isolated transceiver module	3.15-3.45, 4.75-5.25VDC	19.2kbps	64	RoHS CE
TD331/531S485	SMD single RS485 isolated transceiver module	3.15-3.45, 4.75-5.25VDC	19.2kbps	64	RoHS CE
TDH301/501D485H-E	Single high speed high isolation RS485 isolation transceiver module(enhanced)	3.17-3.45, 4.75-5.25VDC	1Mbps	256	RoHS CE
TD322/522D485H-A	Dual channel RS485 isolated transceiver module (automatic switching)	3.15-3.45, 4.75-5.25VDC	120kbps	32	RoHS CE
TD331/531S485H	SMD single high-rate RS485 isolated transceiver module	3.15-3.45, 4.75-5.25VDC	150kbps	128	RoHS CE
TD331/531S485H-A	SMD single RS485 isolated transceiver module (automatic switching)	3.15-3.45, 4.75-5.25VDC	150kbps	128	RoHS CE
TD321/521D485H	Single high-rate RS485 isolated transceiver module	3.15-3.45, 4.75-5.25VDC	200kbps	64	RoHS CE
TD321/521S485H	SMD single high-rate RS485 isolated transceiver module	3.15-3.45, 4.75-5.25VDC	200kbps	64	RoHS CE
TD301/501M485	Single high-rate compact size RS485 isolated transceiver module	3.15-3.45, 4.75-5.25VDC	500kbps	64	RoHS CE
TD321/521D485H-A	Single RS485 isolated transceiver module (automatic switching)	3.15-3.45, 4.75-5.25VDC	500kbps	128	RoHS CE
TD321/521S485H-A	SMD single RS485 isolated transceiver module (automatic switching)	3.15-3.45, 4.75-5.25VDC	500kbps	128	RoHS CE
TD321/521D485H-E	Single high-rate RS485 isolated transceiver module (enhanced)	3.15-3.45, 4.75-5.25VDC	500kbps	256	RoHS CE
TD321/521S485H-E	SMD single high-rate RS485 isolated transceiver module (enhanced)	3.15-3.45, 4.75-5.25VDC	500kbps	256	RoHS CE
TD331/531S485H-E	SMD single high-rate RS485 isolated transceiver module (enhanced)	3.15-3.45, 4.75-5.25VDC	500kbps	256	RoHS CE
TD041S232H NEW	DFN package isolated 232 transceiver	2.375-5.5, 4.5-5.5VDC	0-120kbps	1	RoHS
TD541S232H NEW	DFN package isolated 232 transceiver	4.5-5.5VDC	0-120kbps	1	RoHS
TD331/531S232H	SMD single high-rate RS232 isolated transceiver module	3.15-3.45, 4.75-5.25VDC	0-115.2kbps	1	RoHS CE
TD302/502D232H	Dual channels high-rate RS232 isolated transceiver module	3.0-3.6, 4.5-5.5VDC	0-115.2kbps	2	RoHS
TD041SCANH NEW	DFN package isolated CAN transceiver	2.375-5.5, 4.5-5.5VDC	1Mbps	110	RoHS
TD041SCANFD NEW	DFN package isolated CANFD transceiver	2.375-5.5, 4.5-5.5VDC	5Mbps	110	RoHS
TD(H)541SCANH NEW	DFN package isolated CAN transceiver	4.75-5.25VDC	1Mbps	110	RoHS
TD(H)541SCANFD NEW	DFN package isolated CANFD transceiver	4.75-5.25VDC	5Mbps	110	RoHS
TD321/521DCAN	Single universal CAN isolated transceiver module	3.15-3.45, 4.75-5.25VDC	5k-1Mbps	110	RoHS CE
TD321/521SCAN	SMD single universal CAN isolated transceiver module	3.15-3.45, 4.75-5.25VDC	5k-1Mbps	110	RoHS CE
TD301/501DCANHE	High surge protective CAN isolated transceiver module	3.15-3.45, 4.75-5.25VDC	20k-1Mbps	110	RoHS CE
TD301/501DCANH-W	Wakeable high-speed CAN isolated transceiver module	3.15-3.45, 4.75-5.25VDC	40k-1Mbps	110	RoHS
TDH301/501DCAN	Single high isolation CAN isolation transceiver module	3.15-3.45, 4.75-5.25VDC	5k-1Mbps	110	RoHS
TD301/501MCAN	Single high-rate compact size CAN isolated transceiver module	3.15-3.45, 4.75-5.25VDC	40k-1Mbps	110	RoHS CE
TD321/521DCANH	Single high-rate CAN isolated transceiver module	3.15-3.45, 4.75-5.25VDC	40k-1Mbps	110	RoHS CE
TD321/521SCANH	SMD single high-rate CAN isolated transceiver module	3.15-3.45, 4.75-5.25VDC	40k-1Mbps	110	RoHS CE
TD322/522DCAN	Dual channels CAN isolated transceiver module	3.15-3.45, 4.75-5.25VDC	40k-1Mbps	110	RoHS CE
TD331/531SCANH	SMD single high-rate CAN isolated transceiver module	3.15-3.45, 4.75-5.25VDC	40k-1Mbps	110	RoHS CE
CTD331/531SCANH	Automotive SMD single high-rate CAN isolated transceiver module	3.15-3.45, 4.75-5.25VDC	40k-1Mbps	110	RoHS CE
TD301/501MCANFD	Single high-rate compact size CANFD isolated transceiver module	3.15-3.45, 4.75-5.25VDC	40k-5Mbps	110	RoHS CE
TD331/531SCANFD	SMD single CANFD isolated transceiver module	3.15-3.45, 4.75-5.25VDC	40k-5Mbps	110	RoHS CE
TLAxx-03KCAN	Integrated isolated CAN AC/DC power supply	85-305VAC/100-430VDC	5-1000kbps	110	RoHS CE
TLAxx-03K485L	Integrated isolated 485 AC/DC power supply	85-305VAC/100-430VDC	19.2kbps	128	RoHS CE
TLAxx-03K485	Integrated isolated 485 AC/DC power supply	85-305VAC/100-430VDC	500kbps	128	RoHS CE
TD3/SUSPCAN NEW	Isolated UART/SPI T to CAN Module	3.15-3.45, 4.75-5.25VDC	5k-1Mbps	110	RoHS CE

Signal isolator/ isolation barrier

Series	Function	Input Signal	Output Signal	Feature
TAxx0W	Analog signal	4-20mA, 0-10V	0/4-20mA, 0-10V	DIN-Rail power supply
TAx05W	DC current input analog signal	4-20mA	4-20mA, 1-5V, 0-10V	DIN-Rail power supply
TAx06W	Passive Barrier	4-20mA	4-20mA	/
TRxx0PW	Programmable RTD	Pt100, Cu50, Cu100	0/4-20mA, 0/1-5V, 0/2-10V	DIN-Rail power supply
TR1x0PWE	Programmable RTD	Pt100, Cu50, Cu100	0/4-20mA, 0/1-5V, 0/2-10V	DIN-Rail power supply
TCxx0PW	Programmable thermocouple	R, S, K, J, T, B, E thermocouple, mV signal	0/4-20mA, 0/1-5V, 0/2-10V	DIN-Rail power supply

Signal Conditioning Module

Series	Function	Input Signal	Output Signal	Isolation	Markings
T_L	Two-wire loop power supply	0-2.5V	3.7-22mA	2000VAC	RoHS CE
T_HL	Two-wire self-powered module with HART	0-2.5V	3.7-22mA	2000VAC	RoHS CE
TE_HN	Active high precision high isolated detection type signal	0-5V	0-5V	4000VAC	RoHS
TF_GN	Active module	0-5V	±10V	2000VAC	RoHS CE
TF_N	Active module	0-5V, 0-10V	0/4-20mA, 0-5V, 0-10V	2000VAC	RoHS CE
TN_T NEW	SMD signal self-driving module	0-2.5V, 0-5V, 0-10V	0/4-10mA, 0-2.5/5/10V	2500VDC	RoHS CE
TE_AN	Active module positive and negative signal	±5V, ±10V	0-5V, 0-10V	2000VAC	RoHS CE
TE_CN	Active module positive and negative signal	±5V, ±10V	±5V, ±10V	2000VAC	RoHS CE
T_CP	Active high precision signal	±5V, ±10V	±5V/±10V, ±20mA	2500VDC	RoHS
TM_P	Active high precision signal (mV-class)	0-10/20/30/50/75/100mV	0/4-20mA, 0-5V, 0-10V	2500VDC	RoHS
TM_CP	Active high precision signal (mV-class)	±10/±20/±50/±75/±100/±200mV	±5V/±10V	2500VDC	RoHS
TEM_AN	Active, mV-class, positive and negative signal	±75mV/±100mV	0-5V	2000VAC	RoHS CE
TEM_CN	Active, mV-class, positive and negative signal	±50mV/±100mV/±200mV	±5V/±10V	2000VAC	RoHS CE
T1100N	Passive module	4-20mA	4-20mA	3000VDC	RoHS CE
T1100L	Passive module	4-20mA	4-20mA	3000VDC	RoHS CE
T1100L-F	Passive module (loop power supply)	4-20mA	4-20mA	3000VDC	RoHS CE
TE_N	Active module	0-5V, 0-10V, 4-20mA	0-5V, 0-10V	2000VAC	RoHS CE
TE_T NEW	Active high precision positive signal	0-5V, 4-20mA	0-5V, 0-5V	2000VAC	RoHS
T_P	Active module	0-5V, 0-10V, 0/4-20mA	0/4-20mA, 0-5V, 0-10V	2500VDC	RoHS
TFW_N	Active high precision PWM signal	PWM signal 0-100%	0-20mA, 0-10V	2000VAC	RoHS CE
TRP_P	RTDs detection type isolated module	Pt100(0-500°C)	4-20mA	2000VAC	RoHS CE

LED driver

Series	Input Voltage Range	Output Voltage (VDC)	Output Current (mA)	Effi(%) (Typ)	Package	Markings
KC24H-1000	5.5-48VDC	3.3-36	1000	97	DIP	RoHS
KC24H-1200	5.5-48VDC	3.3-36	1200	97	DIP	RoHS
KC24H-R	5.5-46VDC	3.3-36	0-300, 0-350, 0-500, 0-600, 0-700	95	DIP	RoHS
KC24W	5.5-48VDC	3.3-36	0-300, 0-350, 0-500, 0-600, 0-700	96	DIP	RoHS
KC24RT	5.5-48VDC	3.3-36	0-300, 0-350, 0-500, 0-600, 0-700	96	SMD	RoHS
KC24JT NEW	6-36VDC	3.3-36	300, 700	94	SMD	RoHS

Transformer

Series	Power	Input Voltage Range	Output Voltage (VDC)	Output Channels	Control Mode	Bobbin	Package	Isolation	Certification
TSHT5.8-01	1W	4.5-5.5VDC	5	1	push-pull	/	SMD	3000VDC	RoHS
TTB05xx-1T	1W	4.5-5.5VDC	5, 9	1	push-pull	/	SMD	1650VDC	RoHS
TTURB-6T	6W	9-36VDC	5	1	flyback	ER11.5	SMD	1650VDC	RoHS
TTURA-10T	10W	9-36, 18-75VDC	±5, ±15	2	flyback	ER11.5	SMD	1650VDC	RoHS
TTURB-10T	10W	9-36, 18-75VDC	5	1	flyback	ER11.5	SMD	1650VDC	RoHS
TTURB-20T	20W	9-36VDC	5	1	flyback	ER14.5	SMD	1650VDC	RoHS
TTL503-15B-T	3W	85-305VAC	5, 12	1	flyback	EPC13	SMD	3000VAC	RoHS
TTLDE05-20B-D	5W	85-264VAC	5, 12	1	flyback	EE10	SIP	4000VAC	RoHS
TTLHE10-20B-D	10W	85-264VAC	5, 12	1	flyback	EFD15	SIP	3000VAC	RoHS
TTLHE20-20B-D	20W	85-264VAC	12	1	flyback	EFD20	SIP	4000VAC	RoHS
TTLHE25-20B-D	25W	85-264VAC	12	1	flyback	EFD25	SIP	4000VAC	RoHS

Transformer for automotive (Meet AEC-Q200 standard)

Series	Power	Input Voltage Range	Output Voltage (VDC)	Output Channels	Control Mode	Bobbin	Package	Isolation	Certification
CTTF-1T	1W	4.5-5.5VDC	5	1	push-pull	/	SMD	3000VDC	RoHS
CTTFB-1T	1W	4.5-5.5VDC	5	1	push-pull	/	SMD	3000VAC/4250VDC	RoHS
CTTURB-6T	6W	9-36VDC	5	1	flyback	ER11.5	SMD	1650VDC	RoHS
CTTURA-10T	10W	9-36, 18-75VDC	±5, ±15	2	flyback	ER11.5	SMD	1650VDC	RoHS
CTTURB-10T	10W	9-36, 18-75VDC	5	1	flyback	ER11.5	SMD	1650VDC	RoHS
CTTURB-20T	20W	9-36VDC	5	1	flyback	ER14.5	SMD	1650VDC	RoHS

Caution

■ Purpose:

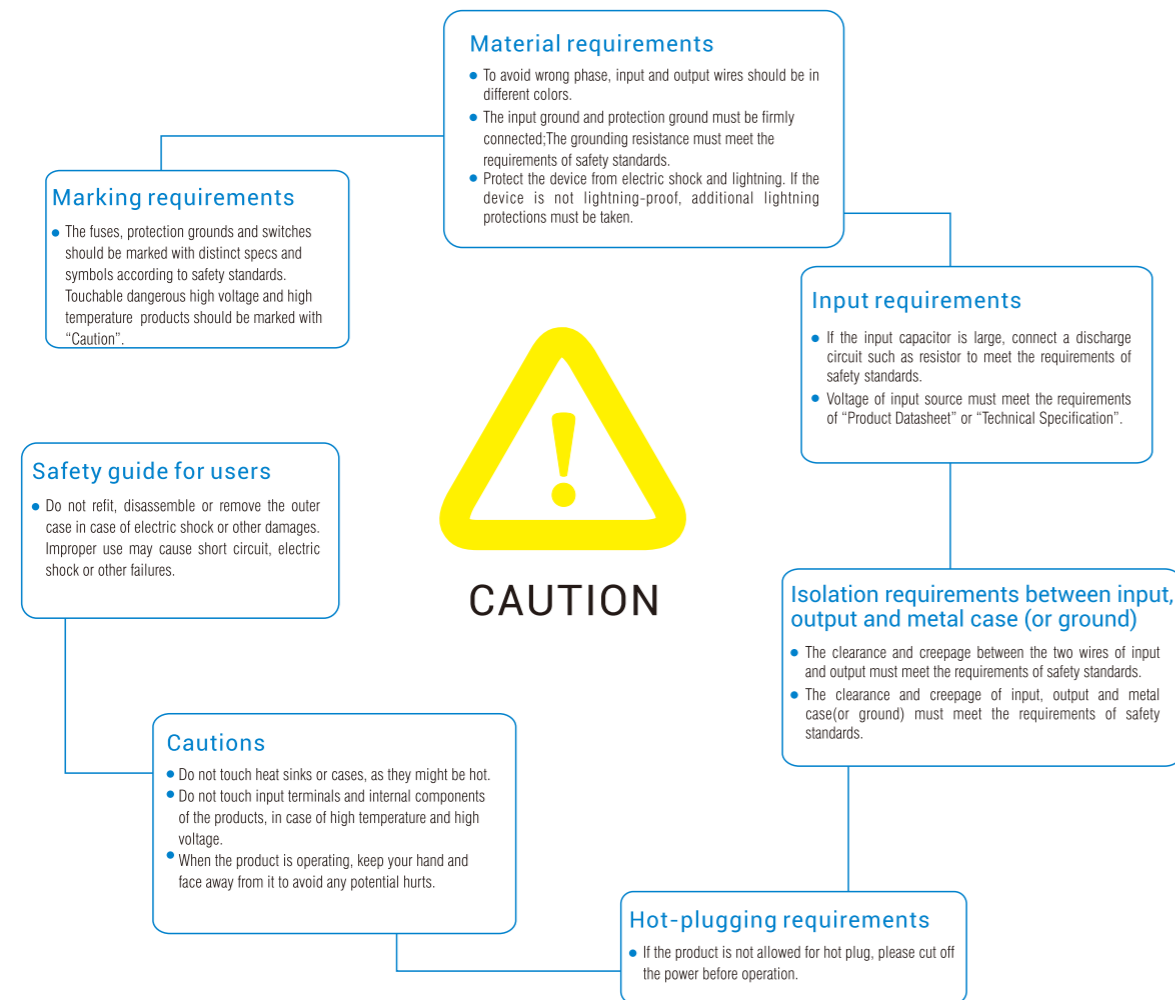
To prevent potential safety problems while using the products.

■ Scope:

AC/DC, DC/DC, EMC Auxiliary Device, Isolation Transmitter, LED Driver and IGBT Driver manufactured by Mornsun Guangzhou Science & Technology Co., Ltd.

■ Contents:

Users should comply to all the contents of Product Datasheet carefully before selection, design, or production, and design and use the products according the requirements of Product Datasheet.



2021-V2

More information about application, please contact us.

Tel: 020-38601850 E-mail: fae801@mornsun.cn

15-1000W

Enclosed Switching Power Supply



Website



Reliable performance



Low cost



Fast delivery

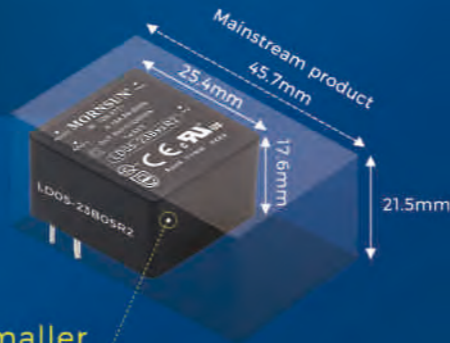


20+ years experience

LD-R2 Series

3-30W AC/DC Converter

- Compact
- Cost-effective
- Reliable



54.5% smaller
Size And Cost Reduction

Power Solution for EV Charging Station

- AC charging
- DC charging



MORNSUN 3-30W LD-R2 series are ultra-compact and cost-effective AC/DC converters for applications with space limitation. These modules have a universal input voltage of 85-305VAC or 100-430VDC and an operating temperature range of -40°C to +85°C, which make them also suitable for a wide range of commercial and industrial applications.

Applications



Industrial



IoT devices



Smart homes



Smart agriculture

Advantages of LD-R2 Series

- Ultra-wide input voltage: 85 - 305VAC, 100 - 430VDC
- IEC/EN/UL62368 OVC III
- EMI: Class B, EFT: ±2KV, Surge: Line-Line ±1KV
- Operating temperature: -40°C to +85°C
- No-load power consumption < 0.1W
- Compact size: 1 × 1 inch

With the shift to renewable energy, the encouragement of governments, and the increasing investment from car companies, the quantity of global electric vehicle (EV) charging infrastructures is growing at a boost speed. MORNSUN has a line of power products engineered for charging station applications to meet various needs of our customers and address the challenge of the latest in EV charging technology.

Power modules in AC Charging Station and DC charging station

Charging Stations	AC Level 1	AC Level 2	DC Fast Charging
Sections	Control system	Control system	1. Control system 2. Off-board charger
Considerations of power design	Compact size Operating temperature EMI	Compact size Operating temperature EMI	Voltage fluctuation Surge Operating temperature
Recommended AC/DC power modules	5W LS05-R3 series 5W LD05-R2 series	10W LS10-R3 series 10-30W LD-R2 series 45-60W LDE series	50-600W LM/LMF series 50-240W LI/LIF series
Recommended DC/DC power modules	Switching regulator K78-R3 series Axxxx-1WR3 H-S-1WR2 TD485		Switching regulator K78-R3 series QA for IGBT/SiC driver 40-200W PV series H-S-1WR2 TDCAN/TD485



Website



Website

305RAC

••••• Reliable under All Conditions •••••

RAC (Reliable under All Conditions) • AC/DC Converter

Best-in-class performance. Handle the voltage fluctuation easily. High-input-voltage capability, high-low-temperature reliability, high-humidity reliability, high-altitude reliability and good EMC performance under almost any harsh conditions.



Handle voltage fluctuations easily with 85-305VAC input



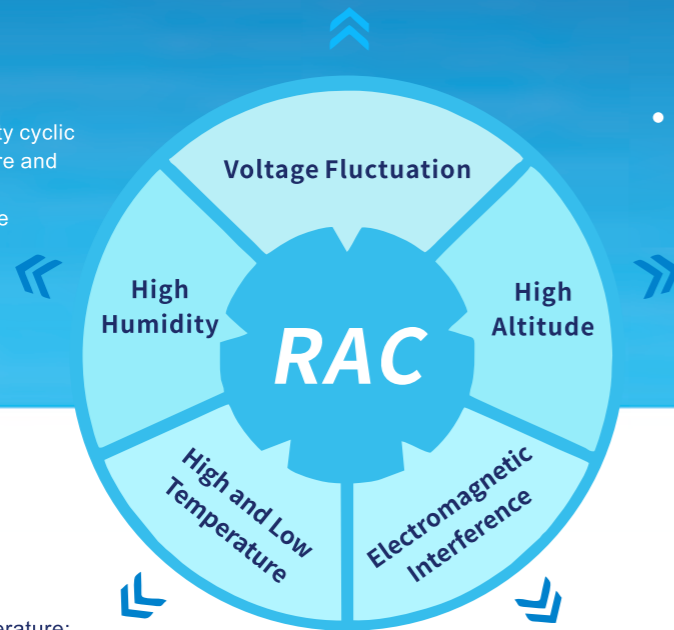
Best-in-class performance



Widely used in almost any harsh conditions

- Input voltage may rise above 264VAC when voltage fluctuation caused by load change or power source as generator

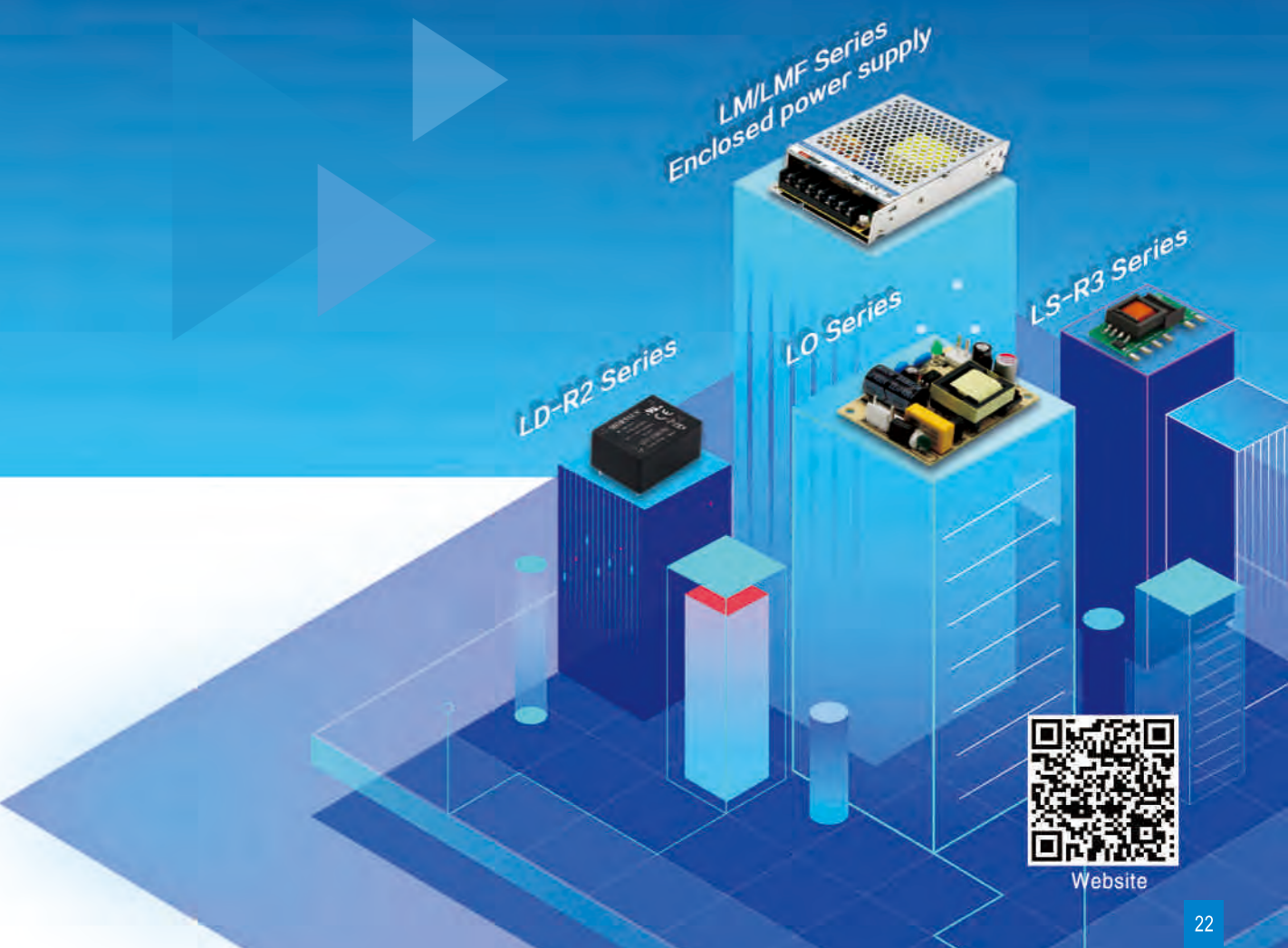
- Humidity test: Temperature/humidity cyclic test, high temperature and high humidity test, constant temperature & humidity test



- Operation altitude up to 5000m
Altitude simulation test: high temperature test, low temperature test, aging test, etc

- Low temperature: -25°C to -40°C
High temperature: +70°C to +80°C

- Lightning/Surge immunity
EMI: CISPR32/EN55032 CLASS A/B



Website