

More information, please visit:

[www.mornsun-power.com](http://www.mornsun-power.com)



# MORNSUN®

## MORNSUN Power

No.5, Kehui St.1, Kehui Development Center, Science Ave.,  
Guangzhou Science City, Huangpu District, Guangzhou  
Tel: 020-38601850 Fax: 020-38601272  
E-mail: [info@mornsun.cn](mailto:info@mornsun.cn)

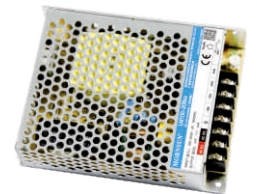
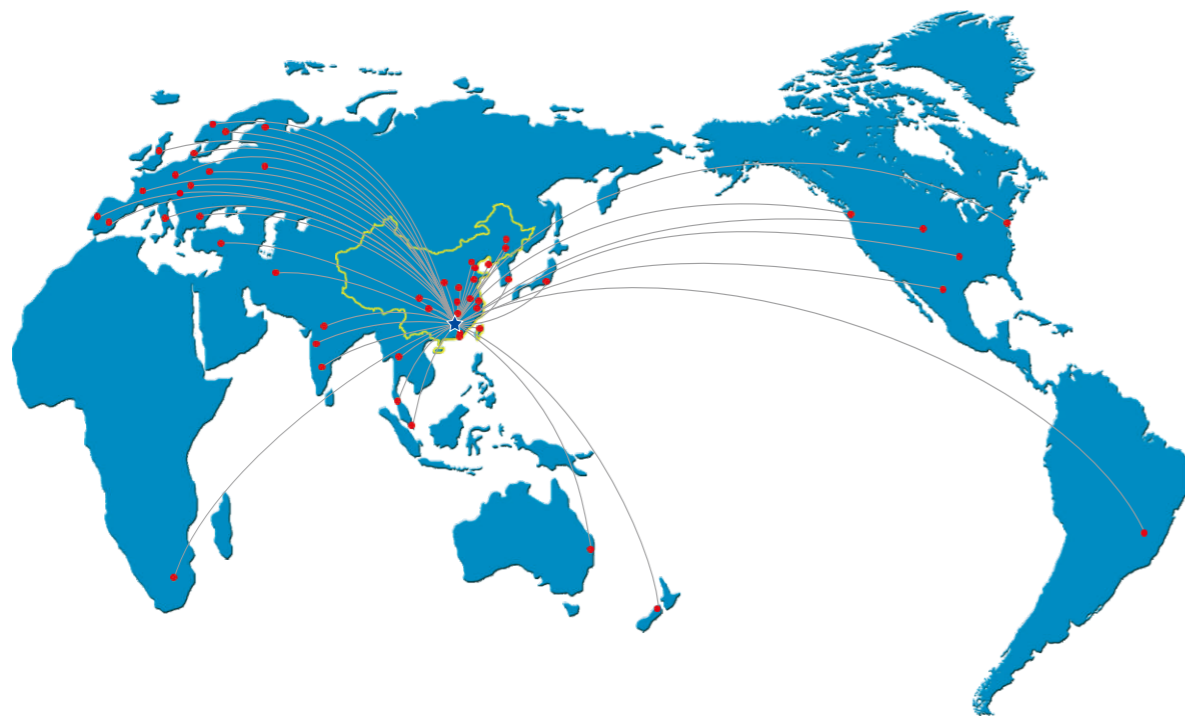
## MORNSUN America,LLC

Add: PO Box 107 Maynard, MA 01754  
Tel: +1 (978) 443 6719  
Email: [info@mornsun.cn](mailto:info@mornsun.cn)  
[www.mornsunamerica.com](http://www.mornsunamerica.com)

## MORNSUN Power GmbH

Add: Mayerbacher Straße 32, 85737 Ismaning,DE  
Tel: +49 (0) 89/693 350 20  
Email: [info@mornsunpower.de](mailto:info@mornsunpower.de)  
[www.mornsunpower.de](http://www.mornsunpower.de)

## Distributions



AC/DC Converter · DC/DC Converter · Enclosed · Transceiver Module · Isolation Amplifier  
IGBT Driver · LED Driver · EMC Auxiliary Device · IC · Transformer

## Selection Guide 2020



MORNSUN®

[www.mornsun-power.com](http://www.mornsun-power.com)

MORE THAN RELIABILITY

- Established: 1998
- Factory: 60000+ square meters
- Registered Capital: USD \$30+ million
- Employees: 2600+
- Patents & IPRs: 1000+
- 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

## Certifications



Automatic TE workshop

## Product Range

### AC/DC

- Power Range: 1-350W
- Isolation Voltage: 2000-4200VAC
- Input Voltage Range: 30-1500VAC

### DC/DC

- Power Range: 0.25-250W
- 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



Power Grid



Communication



Railway



Automotive



PV



Medical



Fire & Security



IOT



Lighting

## 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

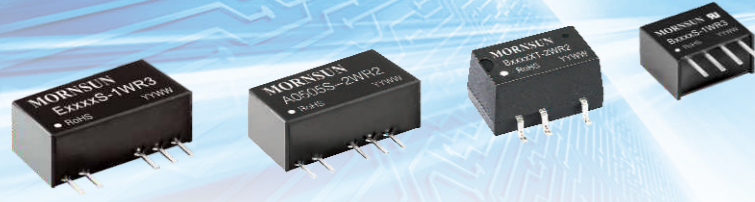


Automatic SMT clean room



# 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



## Fixed input voltage, isolated & unregulated output series

Package	Series	Power	Input Voltage (VDC)	Output Voltage (VDC)	Isolation	Effi (%) (Typ)	Package	Certification
SMD Package	B_XT-W2R2	0.25W	3.3,5,12,24	3.3,5,9,12,15	1500VDC	77	SMD	RoHS CE
	F_XT-W2R2/R3	0.25W	5,12	5	3000VDC	77	SMD	RoHS CE
	A_XT-1WR2/R3	1W	3.3,5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500VDC	85	SMD	RoHS CE CB
	B_XT-1WR2/R3	1W	3.3,5,12,15,24	3.3,5,6,9,12,15,24	1500VDC	85	SMD	RoHS CE CB
	E_XT-1WR2/1WR3	1W	3.3,5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000VDC	85	SMD	RoHS CE CB
	F_XT-1WR2/R3	1W	3.3,5,12,15,24	3.3,5,6,9,12,15,24	3000VDC	85	SMD	RoHS CE CB
	FB0505XT-1WR3 <b>NEW</b>	1W	5	5	4200VDC	82	SMD	RoHS
	B_XT-2WR2	2W	5,12,15,24	3.3,5,9,12,15,24	1500VDC	84	SMD	RoHS CE
	F_XT-2WR2	2W	5,12,15,24	3.3,5,9,12,15,24	3000VDC	84	SMD	RoHS CE
	SIP Package	B_S-W2R2	0.25W	3.3,5,12,15,24	3.3,5,9,12	1500VDC	77	SIP
A_S-1WR2/R3		1W	3.3,5,9,12,15,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500VDC	85	SIP	RoHS CE CB
B_LS-1WR2/R3		1W	3.3,5,12,15,24	3.3,5,9,12,15,24	1500VDC	85	SIP	RoHS CE CB
B_S-1WR2/R3		1W	3.3,5,12,15,24	3.3,5,9,12,15,24	1500VDC	85	SIP	RoHS CE CB
E_S-1WR2/R3		1W	3.3,5,9,12,15,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000VDC	85	SIP	RoHS CE CB
F_S-1WR2/R3		1W	3.3,5,9,12,15,24	3.3,5,9,12,15,24	3000VDC	85	SIP	RoHS CE CB
G_S-1WR2		1W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15$	6000VDC	80	SIP	RoHS CE CB
H_S-1WR2		1W	3.3,5,12,24	3.3,5,12,15	6000VDC	81	SIP	RoHS CE CB
A_S-2WR2		2W	5,12,15,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500VDC	86	SIP	RoHS CE CB
B_S-2WR2		2W	5,9,12,15,24	3.3,5,9,12,15,24	1500VDC	86	SIP	RoHS CE CB
E_S-2WR2		2W	5,12,15,24	$\pm 3.3, \pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000VDC	84	SIP	RoHS CE CB
F_S-2WR2		2W	5,12,15,24	3.3,5,9,12,15,24	3000VDC	86	SIP	RoHS CE CB
G_S-2WR2		2W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15$	6000VDC	82	SIP	RoHS CE
H_S-2WR2		2W	5,12,15,24	5,12,15	6000VDC	84	SIP	RoHS CE
DIP Package	B_S-3WR2	3W	5,12	5,9,12	1500VDC	88	SIP	RoHS
	F_S-3WR2	3W	5,12,15	5,9,12,15	3000VDC	88	SIP	RoHS
	B05_LD-1WR2/R3	1W	5	5,5,6,0	1500VDC	79	DIP	RoHS
	F_N-1WR3	1W	5	3.3,5,9,12,15,24	3000VDC	85	DIP	RoHS CE
	A_D-1WR2	1W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500VDC	81	DIP	RoHS
	B_D-1WR2	1W	3.3,5,12,15,24	3.3,5,9,12,15,24	1500VDC	80	DIP	RoHS CE CB
	E_D-1WR2/R3	1W	5,12,24	$\pm 5, \pm 9, \pm 12, \pm 15$	3000VDC	84	DIP	RoHS CE
	F_D-1WR2	1W	3.3,5,12,15,24	3.3,5,12,15	3000VDC	81	DIP	RoHS CE
DIP Package	A_D-2WR2	2W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	1500VDC	84	DIP	RoHS CE CB
	B_D-2WR2	2W	3.3,5,9,12,24	3.3,5,9,12,15,24	1500VDC	84	DIP	RoHS CE CB
	E_D-2WR2	2W	5,12,15,24	$\pm 5, \pm 9, \pm 12, \pm 15, \pm 24$	3000VDC	85	DIP	RoHS CE CB
	F_D-2WR2	2W	5,12,15,24	5,9,12,15,24	3000VDC	85	DIP	RoHS CE CB

## Fixed input voltage, isolated & regulated output series

Package	Series	Power	Input Voltage (VDC)	Output Voltage (VDC)	Isolation	Effi (%) (Typ)	Package	Certification
SMD Package	IB_XT-W75R3	0.75W	5	3.3,5,9,12,15	1500VDC	74	SMD	RoHS CE
	IB_XT-1WR2	1W	5,12,24	3.3,5,12,15	1500VDC	75	SMD	RoHS CE
	IF_XT-1WR2/R3	1W	5,12,24	3.3,5,9,12,15	3000VDC	74	SMD	RoHS CE
SIP Package	IB_S-W75R3	0.75W	5	3.3,5,9,12,15	1500VDC	74	SIP	RoHS CE
	IB_LS-1W/1WR3	1W	5,12,15,24	3.3,5,9,12,15,24	1500VDC	75	SIP	RoHS CE CB
	IF_S-1W/1WR3	1W	5,12,24	3.3,5,9,12,15,24	3000VDC	74	SIP	RoHS CE CB
	IE_KS-1WR3	1W	5	$\pm 5, \pm 9, \pm 12, \pm 15$	3000VDC	70	SIP	RoHS CE
	IB_S-2W	2W	5,12,15,24	5,12,15	1000VDC	77	SIP	RoHS CE
	IF_S-2W	2W	5,12,24	5	3000VDC	70	SIP	RoHS CE

# DC/DC Converter

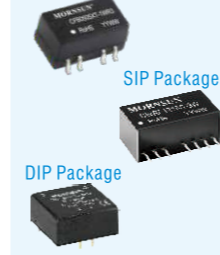
- Automotive DC/DC converter
- Production process meets IATF16949 system
  - Meet AEC-Q100 standard
  - Isolation up to 4300VDC

## K78 series

- Efficiency up to 96%
- Operating temperature: -40°C to +85°C
- Continuous short-circuit protection
- Pin-out compatible with LM78xx linear regulators



## SMD Package



## DC/DC converter specialized for automobile electronics

Series	Power	Input Voltage Range(VDC)	Output Voltage (VDC)	Isolation	Effi (%) (Typ)	Package	Certification
CF0505XT-1WR3	1W	4.5-5.5	5	3500VDC	82	SMD	RoHS CE
CFB0505XT-1WR3 <b>NEW</b>	1W	4.5-5.5	5	4200VDC	82	SMD	RoHS CE
CWRF_S-3W	3W	7-18	15	4300VDC	82	SIP	RoHS
CVRC_JD-6WR3 <b>NEW</b>	6W	9-18	15	3000VDC	82	SMD	RoHS CE
CUWB_YMD-6WR3	6W	4.5-36	3.3,5,12,15,24	1500VDC	85	DIP	RoHS CE
UW2405D-20W	20W	6-50	5	1500VDC	82	DIP ,metal	RoHS
UWD240512D-20W	20W	6-60	5,12	1500VDC	85	DIP ,metal	RoHS

## 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	Effi (%) (Typ)	Package	Certification
URF2428LP-700	9-36 (24VDC)	0-28.5	700	4200VDC	88	SMD	RoHS
URB24A5YMD-1000	9-36 (24VDC)	0-5.06	1000	1500VDC	78	SMD	RoHS

## Wide input voltage, non-isolated & regulated output series

Package	Series	Current (mA)	Input Voltage Range(VDC)	Output Voltage (VDC)	Effi (%) (Typ)	Package	Certification
SIP Package	K78-500R3	500/-300/-150	4.75-36	3.3,5,9,12,15,-5,-12,-15	95	SIP	RoHS CE CB
	K78L-500R3	500/-300/-150	4.75-36	3.3,5,12,15,-5,-12,-15	95	SIP	RoHS CE CB
	K78xxW-500R3	500/-300/-150	4.75-36	3.3,5,9,12,15,-5,-12,-15	95	SIP	RoHS CE
	K78U-500R3(L)	500	9-80	3.3,5,6,5,9,12,15	95	SIP	RoHS
	K78-1000R3(L)	1000/-500/-300	6-36	3.3,5,9,12,15,-5,-12,-15	96	SIP	RoHS CE CB
	K78L-1000R3	1000/-500/-300	6-36	3.3,5,12,15,-5,-12,-15	96	SIP	RoHS CE CB
	K78xxM-1000R3	1000/-500/-300	6-36	3.3,5,9,12,15,-5,-12,-15	96	SIP	RoHS CE
	K78-2000R3	2000	4.5-36	2.5,3.3,5,9,12,15	96	SIP	RoHS CE
	K78-3AR3 <b>NEW</b>	3000	8-36	3.3,5,6,5,9,12,15	/	SIP	RoHS
	SMD Package	K78T-500R3	500	4.75-36	1.5,1.8,2.5,3.3,5,6,5,9,12,15	95	SMD
K78T-1000R3		1000/800	4.75-36	1.5,1.8,2.5,3.3,5,6,5,9,12	95	SMD	RoHS CE
K78_JT-500R3		500	4.75-36	3.3,5,9,12,15	95	SMD	RoHS CE
K12T-6A-P(N)		6000	8.3-14	0.75-5	94	SMD	RoHS CE
K12T-10A/16A		10000/16000	8.3-14	0.75-5	96	SMD	RoHS CE
KUB4812QB-10A		10000	16-75	12	95	SMD	RoHS
KUB4824QB-10A		10000	30-75	24	97	SMD	RoHS

## High output voltage, non-isolated & regulated output series

Package	Series	Input Voltage Nominal (VDC)	Output Voltage Nominal (VDC)	Output Voltage Range(VDC)	Constant Current (mA)	Certification
DIP Package	H01-P601-2C	12	600	0-600	2	RoHS
	H01-P102-20D	16	1000	0-1000	20	RoHS
	H01-P202-20D	16	2000	0-2000	20	RoHS
	H01-P(N)1251H-0.5C(D/F) <b>NEW</b>	12,15,24	+1250/-1250	0 to +1250 / 0 to -1250	0.5	RoHS
	H01-P(N)1251V-0.5C(F) <b>NEW</b>	12,24	+1250/-1250	0 to +1250 / 0 to -1250	0.5	RoHS
	H01-P(N)1501H-0.5C(D) <b>NEW</b>	12,15	+1500/-1500	0 to +1500 / 0 to -1500	0.5	RoHS

# DC/DC Converter

# DC/DC Converter



- 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	Effi(%) (Typ)	Package	Certification
WRA_S-1WR2	1W	4.5-9,9-18,18-36,36-75	± 5, ± 9, ± 12, ± 15	1500VDC	81	SIP	RoHS CE
WRB_S-1WR2	1W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	1500VDC	80	SIP	RoHS CE
WRE_S-1WR2	1W	4.5-9,9-18,18-36,36-75	± 5, ± 12, ± 15	3000VDC	81	SIP	RoHS CE
WRF_S-1WR2	1W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	3000VDC	80	SIP	RoHS CE
WRA_S-3WR2	3W	4.5-9,9-18,18-36,36-75	± 5, ± 9, ± 12, ± 15, ± 24	1500VDC	83	SIP	RoHS CE
WRB_S-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,6,9,12,15,24	1500VDC	84	SIP	RoHS CE
WRE_S-3WR2	3W	4.5-9,9-18,18-36,36-75	± 5, ± 9, ± 12, ± 15	3000VDC	83	SIP	RoHS CE
WRF_S-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	3000VDC	84	SIP	RoHS CE
VRB_S-6WR3	6W	9-18,18-36	3.3,5,9,12,15,24	1600VDC	87	SIP	RoHS CE
VRB_S-10WR3	10W	9-18,18-36	3.3,5,9,12,15,24	1500VDC	88	SIP	RoHS CE

NEW



WRA_SD/T-1WR2	1W	9-18,18-36	± 5, ± 9, ± 12, ± 15	1500VDC	80	SMD/DIP	RoHS
WRB_SD/T-1WR2	1W	9-18,18-36	3.3,5,12,15,24	1500VDC	80	SMD/DIP	RoHS
WRA_SD/T-3WR2	3W	9-18,18-36	± 5, ± 9, ± 12, ± 15	1500VDC	82	SMD/DIP	RoHS
WRB_SD/T-3WR2	3W	9-18,18-36	3.3,5,12,15,24	1500VDC	83	SMD/DIP	RoHS



DIP 24

WRE_P-3WR2	3W	4.5-9,9-18,18-36,36-75	± 3.3, ± 5, ± 9, ± 12, ± 15	3000VDC	85	DIP ,plastic	RoHS CE
WRF_P-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,12,15,24	3000VDC	86	DIP ,plastic	RoHS CE
WRA_ZP-3WR2	3W	4.5-9,9-18,18-36,36-75	± 5, ± 9, ± 12, ± 15, ± 24	1500VDC	85	DIP ,metal	RoHS CE
WRB_ZP-3WR2	3W	4.5-9,9-18,18-36,36-75	3.3,5,9,12,15,24	1500VDC	86	DIP ,metal	RoHS CE
VRA_ZP-6WR3	6W	4.5-9,9-18,18-36,36-75	± 5, ± 12, ± 15, ± 24	1500VDC	87	DIP ,metal	RoHS CE
VRB_ZP-6WR3	6W	4.5-9,9-18,18-36,36-75	3.3,5,12,15,24	1500VDC	88	DIP ,metal	RoHS CE
VRA_ZP-10WR3	10W	9-18,18-36,36-75	± 5, ± 12, ± 15	1500VDC	87	DIP ,metal	RoHS CE
VRB_ZP-10WR3	10W	9-18,18-36,36-75	3.3,5,12,15,24	1500VDC	88	DIP ,metal	RoHS CE



2x1 inch

VRB_LD-15WR3	15W	18-36,36-75	3.3,5,12,15,24	1500VDC	90	DIP	RoHS CE CB
VRA_LD-20WR3	20W	9-18,18-36,36-75	± 5, ± 9, ± 12, ± 15, ± 24	1500VDC	89	DIP	RoHS CE
VRB_LD-20WR3	20W	9-18,18-36,36-75	3.3,5,9,12,15,24,110	1500VDC	90	DIP	RoHS CE
VRB_LD-30WR3	30W	18-36,36-75	3.3,5,9,12,15,24	1500VDC	90	DIP	RoHS CE
VRB_LD-40WHR3	40W	18-36,36-75	5,12,15,24	1500VDC	91	DIP	RoHS CE

DIP Package



1x1 inch

VRA_YMD-6WR3	6W	9-18,18-36	± 5, ± 12, ± 15	1500VDC	87	DIP	RoHS CE CB
VRB_YMD-6WR3	6W	9-18,18-36,36-75	3.3,5,9,12,15,24	1500VDC	88	DIP	RoHS CE
VRA_YMD-10WR3	10W	4.5-9	± 5, ± 12, ± 15, ± 24	1500VDC	84	DIP	RoHS CE
VRB_YMD-10WR3	10W	4.5-9,9-18,18-36,36-75	3.3,5,12,15,24	1500VDC	88	DIP	RoHS CE
VRB_YMD-15WR3	15W	9-18,18-36,36-75	3.3,5,12,15,24	1500VDC	91	DIP	RoHS CE
VRB_YMD-20WR3	20W	9-18,18-36,36-75	3.3,5,12,15,24	1500VDC	91	DIP	RoHS CE

SIP Package



## Ultra-wide input (4:1)

Series	Power	Input Voltage Range(VDC)	Output Voltage (VDC)	Isolation	Effi(%) (Typ)	Package	Certification
URD_S-3WR3	3W	18-75	5/5,5/12,5/24	3000VDC	78	SIP	RoHS CE
URB_S-6WR3	6W	9-36	3.3,5,9,12,15,24	1600VDC	87	SIP	RoHS CE
URB_S-10WR3	10W	9-36	3.3,5,9,12,15,24	1500VDC	88	SIP	RoHS CE

DIP Package



DIP 24

URH_P-6WR3	6W	9-36,18-75	5,6,9,12,15,24	6000VDC	85	DIP ,plastic	RoHS CE
URE_P-6WR3	6W	9-36	± 5, ± 12, ± 15	3000VDC	85	DIP ,plastic	RoHS CE CB
URF_P-6WR3	6W	9-36,18-75	3.3,5,9,12,15,24,25	3000VDC	88	DIP ,plastic	RoHS CE CB
PWB_ZP-3WR2	3W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	83	DIP ,metal	RoHS CE
URA_ZP-6WR3	6W	9-36,18-75	± 5, ± 9, ± 12, ± 15, ± 24	1500VDC	88	DIP ,metal	RoHS CE CB
URB_ZP-6WR3	6W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	88	DIP ,metal	RoHS CE CB
URA_ZP-10WR3	10W	9-36,18-75	± 5, ± 12, ± 15	1500VDC	87	DIP ,metal	RoHS CE
URB_ZP-10WR3	10W	9-36,18-75	3.3,5,12,15,24	1500VDC	88	DIP ,metal	RoHS CE

DIP Package



1x1 inch

URA_YMD-6WR3	6W	9-36,18-75	± 5, ± 12, ± 15, ± 24	1500VDC	88	DIP	RoHS CE CB
URB_YMD-6WR3	6W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	88	DIP	RoHS CE CB
URA_YMD-10WR3	10W	9-36,18-75	± 5, ± 9, ± 12, ± 15, ± 24	1500VDC	87	DIP	RoHS CE CB
URB_YMD-10WR3	10W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	88	DIP	RoHS CE CB
URD_YMD-10WR3	10W	18-75	5/5,5/12,5/24	1500VDC	84	DIP	RoHS CE
URA_YMD-15WR3	15W	9-36,18-75	± 5, ± 12, ± 15, ± 24	1500VDC	90	DIP	RoHS CE
URB_YMD-15WR3	15W	9-36,18-75	3.3,5,12,15,24	1500VDC	91	DIP	RoHS CE CB
URA_YMD-20WR3	20W	9-36,18-75	± 5, ± 12, ± 15, ± 24	1500VDC	90	DIP	RoHS CE
URB_YMD-20WR3	20W	9-36,18-75	3.3,5,6,12,15,24	1500VDC	91	DIP	RoHS CE CB
URB_YMD-30WR3	30W	18-75	5,12,15,24	1500VDC	88	DIP	RoHS

DIP Package



2x1 inch

URE_LP-10WR3	10W	9-36,18-75	± 5, ± 12, ± 15	3000VDC	87	DIP ,plastic	RoHS CE CB
URF_LP-10WR3	10W	9-36,18-75	3.3,5,9,12,15,24	3000VDC	87	DIP ,plastic	RoHS CE CB
URF_LP-20WR3	20W	9-36,18-75	3.3,5,9,12,15,24	3000VDC	89	DIP ,plastic	RoHS CE CB
URH_LP-20WR3	20W	9-36,18-75	3.3,5,9,12,15,24	5000VAC	89	DIP ,plastic	RoHS CE (pending)
URA_LD-20WR3	20W	9-36,18-75	± 5, ± 9, ± 12, ± 15	1500VDC	89	DIP ,metal	RoHS CE CB
URB_LD-20WR3	20W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	90	DIP ,metal	RoHS CE CB
URD_LD-20WR3	20W	18-75	5/5,5/12,5/24	3000VDC	84	DIP ,metal	RoHS CE
URA_LD-30WR3	30W	9-36,18-75	± 5, ± 12, ± 15, ± 24	1500VDC	89	DIP ,metal	RoHS CE
URB_LD-30WR3	30W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	90	DIP ,metal	RoHS CE CB
URD_D-30WR3	30W	18-75	5/24	3000VAC	84	DIP ,metal	RoHS CE



1/4 Brick

URF_QB-75WR3	75W	18-75	5,12,15,24,48	2250VDC	93	DIP	RoHS CE
URF_QB-100WR3	100W	9-36,18-75	5,12,15,24,28,48	2250VDC	94	DIP	RoHS CE
URF_QB-150WR3	150W	18-75	5,12,15,24,48	2250VDC	91	DIP	RoHS CE
URF_QB-200WR3	200W	18-75	5,12,15,24,48	2250VDC	91	DIP	RoHS CE

Ultra-thin



URB_MT-3WR3	3W	9-36,18-75	3.3,5,9,12,15,24	1500VDC	84	SMD	RoHS CE CB
U/VRB_J(M)D/T-3W	3W	4.5-9,9-36	3.3,5,12,15,24	1500VDC	83	DIP/SMD	RoHS CE
VRB_J(M)D/T-6W	6W	9-18,18-36	3.3,5,12,15	1500VDC	86	DIP/SMD	RoHS CE CB
URB_J(M)D/T-10W	10W	9-36	5,12,15	1500VDC	88	DIP/SMD	RoHS CE CB
URB_J(M)D/T-15W	15W	9-36,18-75	3.3,5,12,15	1500VDC	89	DIP/SMD	RoHS

NEW



Communication

VCB_SO-3WR3	3W	36-75	5,12,15,24	1500VDC	83	SIP	RoHS CE
VCB_SO-6WR3	6W	36-75	5,12,15,24	1500VDC	85	SIP	RoHS CE
VCB_SBO-10WR3	10W	36-75	5,12,15,24	1500VDC	88	DIP	RoHS
VCB_SBO-30WR3	30W	36-75	5,12,15,24	1500VDC	90	DIP	RoHS

Wide input voltage for railway

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



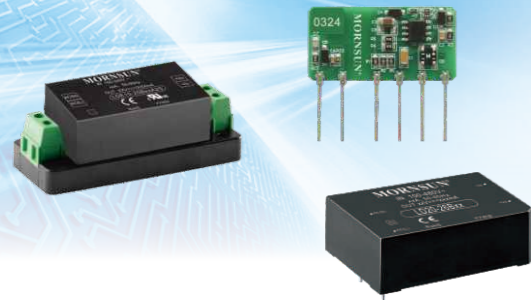
2x1,1x1 inch

1/4,1/2 Brick

URA1D_YMD-6WR3	6W	40-160	± 5, ± 12, ± 15	2250VDC	85	DIP	RoHS CE
URB1D_YMD-6WR3	6W	40-160	5,12,15,24	2250VDC	86	DIP	RoHS CE
URA1D_X(LMD)-10WR3	10W	40-160	± 5, ± 12, ± 15	2250VDC	84	DIP	RoHS CE
URB1D_LMD-10WR3	10W	40-160	3.3,5,12,15,24	2250VDC	85	DIP	RoHS CE
URB1D_LMD-15WR3	15W	40-160	3.3,5,12,15,24	2250VDC	85	DIP	RoHS CE
URB1D_LMD-20WR3	20W	40-160	3.3,5,12,15,24	2250VDC	86	DIP	RoHS CE
URB1D_LD-20WR3	20W	40-160	3.3,5,12,15,24	2250VDC	87	DIP	RoHS CE
URE1D_LD-20WR3	20W	40-160	± 12, ± 15, ± 24	3000VDC	86	DIP	RoHS
URF1D_LD-40WR3	40W	40-160	3.3,5,12,15,24,48	3000VDC	91	DIP	RoHS CE
URF1D_QB-50WR3	50W	43-160	3.3,5,12,15,24,48	3000VAC	89	DIP	RoHS CE
URF1D_QB-75WR3	75W	43-160	3.3,5,12,15,24,48	3000VAC	91	DIP	RoHS CE
URF1D_QB-100WR3	100W	43-160	3.3,5,12,15,24,48	3000VAC	91	DIP	RoHS CE
URF1D_HB-150WR3	150W	43-160	5,12,15,24,48	3000VAC	90	DIP	RoHS CE
URF1D_HB-250WR3	250W	40-160	5,12,15,24,48,54	3000VAC	90	DIP	RoHS CE



# AC/DC Converter



## LS Series

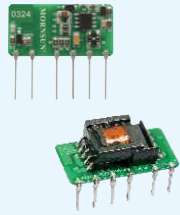
- Low power consumption, low ripple & noise
- Ultra-compact size, high power density
- High flexible for the PCB layout
- Isolation voltage up to 4000VAC

## Three-phase AC/DC power supply

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

## 1-10W DIY type LS series

### SIP Package



Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Isolation	Certification
LS01-15BxxSS(-F)	1W	85-305VAC/70-430VDC	5,9,12,15,24	70	3000VAC	RoHS   CE CB
LS03-15BxxSR2S(-F)	3W	85-305VAC/70-430VDC	3,3.5,9,12,15,24	77	3000VAC	RoHS   CE CB
LS05-15BxxSS(-F)	5W	85-264VAC/100-400VDC	3,3.5,9,12,15,24	79	4000VAC	RoHS   CE CB
LS05-13BxxSR2S(-F) <b>NEW</b>	5W	85-305VAC/70-430VDC	3,3.5,9,12,15,24	79	3000VAC	RoHS   CE CB
LS08-13BxxSS(-F) <b>NEW</b>	8W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	79	3000VAC	RoHS   CE CB
LS10-13BxxSS(-F) <b>NEW</b>	10W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	82	3000VAC	RoHS   CE CB
LS15-13BxxSS(-F) <b>NEW</b>	15W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	83	3000VAC	RoHS   CE CB (pending)

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

**NEW**

### Core board



Demo board

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Isolation	Certification
LSC20-20M03	11.55W	85-264VAC/100-370VDC	3.3	73	4000VAC	RoHS
LSC20-20M05	15.5W	85-264VAC/100-370VDC	5	76	4000VAC	RoHS
LSC20-20M09	20W	85-264VAC/100-370VDC	9	81	4000VAC	RoHS
LSC20-20M12	20W	85-264VAC/100-370VDC	12	83	4000VAC	RoHS
LSC20-20M15	20W	85-264VAC/100-370VDC	15	84	4000VAC	RoHS
LSC20-20M24	20W	85-264VAC/100-370VDC	24	86	4000VAC	RoHS

## 1-3W non-isolated AC/DC converter LS-K3B series

**NEW**

### SIP Package



Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Output Current	Certification
LS01-K3B05SS	1W	85-305VAC/70-430VDC	5	57	200mA	RoHS CE
LS03-K3B12SS	3W	85-305VAC/70-430VDC	12	73	250mA	RoHS CE

## Three-phase AC/DC power supply

**NEW**

### Core board scheme

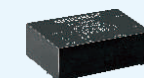


Core board scheme

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Isolation	Certification
LSC15-26M05	15W	45-528VAC/65-745VDC	Vo1-5 Vo1/Vo2: 5/5, 5/24 Vo1/Vo2/Vo3: 5/±5.5/±12.5/±15	76	4000VAC	RoHS
LSC15-26M09	15W	45-528VAC/65-745VDC	9	78	4000VAC	RoHS
LSC15-26M12	15W	45-528VAC/65-745VDC	12	80	4000VAC	RoHS
LSC15-26M15	15W	45-528VAC/65-745VDC	15	80	4000VAC	RoHS
LSC15-26M24	15W	45-528VAC/65-745VDC	24	83	4000VAC	RoHS



LS03-16BxxSS(-F)	3W	90-528VAC/100-745VDC	3,3.5,9,12,15,24	76	4000VAC	RoHS   CE CB
LS05-26BxxSS(-F)	5W	90-528VAC/100-745VDC	3,3.5,9,12,15,24	76	4000VAC	RoHS CE



LD03-16B	3W	90-528VAC/100-745VDC	3,3.5,9,12,15,24	76	3000VAC	RoHS   CE CB
LD10-26B	10W	90-528VAC/100-745VDC	3,3.5,9,12,15,24	82	4000VAC	RoHS CE
LD20-26B	20W	90-528VAC/100-745VDC	3,3.5,9,12,15,24	83	4000VAC	RoHS CE



L010-26D0512-04L	10.92W	57-528VAC/80-745VDC	5,1/12	78	4000VAC	RoHS
L015-26D1212-03	13.2W	57-528VAC/80-745VDC	12/12	77	4000VAC	RoHS
L015-26D1305-03	15W	57-528VAC/80-745VDC	5/13.5	78	4000VAC	RoHS

# AC/DC Converter

## 2-60W compact size LD/LDE series



A4S

A2S

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Isolation	Certification
LD01-10B	1W	85-305VAC/120-430VDC	3,3.5,9,12,15,24	75	4000VAC	RoHS   CE
LDE02-23B	2W	85-305VAC/120-430VDC	3,3.5,9,12,15,24	78	4000VAC	RoHS   CE CB
LDE05-23B <b>NEW</b>	5W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	80	4000VAC	RoHS   CE CB
LDE10-23B <b>NEW</b>	10W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	82	4000VAC	RoHS   CE CB
LDE03-20B	3W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	78	4000VAC	RoHS   CE CB
LDE03-20B-W	3W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	78	4000VAC	RoHS   CE CB
LD03-20B-WG	3W	85-264VAC/120-373VDC	5,12,24	75	4000VAC	RoHS CE
LD03-20B-C	3W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	77	4000VAC	RoHS   CE CB
LDE05-20B	5W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	81	4000VAC	RoHS   CE CB
LDE05-20B-W	5W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	81	4000VAC	RoHS   CE CB
LD05-20B-C	5W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	80	4000VAC	RoHS   CE CB
LDE06-20B	6W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	80	4000VAC	RoHS   CE CB
LDE10-20B	10W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	83	4000VAC	RoHS   CE CB
LDE15-20B	15W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	81	4000VAC	RoHS   CE CB
LDE20-20B	20W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	83	4000VAC	RoHS   CE CB
LDE45-20B <b>NEW</b>	45W	85-264VAC/100-370VDC	5,12,15,24,48	87	4000VAC	RoHS CE
LDE60-20B <b>NEW</b>	60W	85-264VAC/100-370VDC	5,12,15,24,48	90	4000VAC	RoHS CE

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



A2 Chassis Mounting



A5 Chassis Mounting



A4 DIN-Rail Mounting



A6 DIN-Rail Mounting

Series	Power	Input Voltage Range	Output Voltage (VDC)	Output Voltage (VDC)	Isolation	Certification
LH05-13B	5W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	/	3000VAC	RoHS   CE CB
LHE10-23B <b>NEW</b>	10W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	/	4000VAC	RoHS CE
LHE15-23B <b>NEW</b>	15W	85-305VAC/100-430VDC	3,3.5,9,12,15,24,48	/	4000VAC	RoHS   CE CB
LH20-13B	20W	85-305VAC/100-430VDC	3,3.5,9,12,15,24	/	3000VAC	RoHS   CE CB
LHE25-23B <b>NEW</b>	25W	85-305VAC/100-430VDC	3,3.5,9,12,15,24,48	/	4000VAC	RoHS   CE CB
LHE40-23B <b>NEW</b>	40W	85-305VAC/100-430VDC	3,3.5,12,15,24,48	/	4000VAC	RoHS CE
LHE60-23B <b>NEW</b>	60W	85-305VAC/100-430VDC	5,12,15,24,48	/	4000VAC	RoHS CE
LHE05-20B	5W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	/	4000VAC	RoHS   CE CB
LHE10-20B	10W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	/	4000VAC	RoHS   CE CB
LHE15-20B	15W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	/	4000VAC	RoHS   CE CB
LHE20-20B	20W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	/	4000VAC	RoHS   CE CB
LHE25-20B	25W	85-264VAC/100-370VDC	3,3.5,9,12,15,24,48	/	4000VAC	RoHS   CE CB
LHE40-20B	40W	85-264VAC/100-370VDC	3,3.5,12,15,24,48	/	4000VAC	RoHS CE
LHE60-20B	60W	85-264VAC/100-370VDC	5,12,15,24,48	/	4000VAC	RoHS CE
LHE05-20A	5W	85-264VAC/100-370VDC	+5, +12, +15	-5, -12, -15	4000VAC	RoHS
LHE05-20C	5W	85-264VAC/100-370VDC	5	±5, ±12, ±15	4000VAC	RoHS
LHE05-20D	5W	85-264VAC/100-370VDC	5	5,12,15,24	4000VAC	RoHS
LHE10-20A	10W	85-264VAC/100-370VDC	+5, +12, +15	-5, -12, -15	4000VAC	RoHS
LHE10-20C	10W	85-264VAC/100-370VDC	5	±12, ±15	4000VAC	RoHS
LHE10-20D	10W	85-264VAC/100-370VDC	5	5,12,15,24	4000VAC	RoHS
LHE15-20A	15W	85-264VAC/100-370VDC	+5, +12, +15	-5, -12, -15	4000VAC	RoHS
LHE15-20C	15W	85-264VAC/100-370VDC	5	±5, ±12, ±15	4000VAC	RoHS
LHE15-20D	15W	85-264VAC/100-370VDC	5	5,12,24	4000VAC	RoHS
LHE20-20A	20W	85-264VAC/100-370VDC	+12, +15	-12, -15	4000VAC	RoHS
LHE20-20C	20W	85-264VAC/100-370VDC	5	±12, ±15	4000VAC	RoHS
LHE20-20D	20W	85-264VAC/100-370VDC	5	12,15,24	4000VAC	RoHS

# AC/DC Converter



## LO Series

- Isolation: 3000VAC
- Regulated output, low ripple & noise
- Output short-circuit, over-current, over-voltage protections
- Multiple output voltages are available

## LI Series

- Isolation voltage up to 4000VAC
- Efficiency up to 97%
- Ladder-shaped appearance is available
- Output short-circuit, over-current, over-voltage protections

## 3-65W Cost-effective open frame AC/DC converter LO series

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi (%) (Typ)	Isolation	Certification
L003-10B	3W	85-264VAC/100-370VDC	3.3,5,9,12,15,24	79	3000VAC	RoHS
L005-12B	5W	165-264VAC/230-370VDC	3.3,5,9,12,15,24	79	3000VAC	RoHS
L015-10B	15W	85-264VAC/100-370VDC	3.3,5,9,12,15,24	82	3000VAC	RoHS, CE, CB
L030-10B	30W	85-264VAC/100-370VDC	3.3,5,9,12,15,24,48	88	3000VAC	RoHS, CE, CB
L045-10B	45W	85-264VAC/100-370VDC	3.3,5,9,12,15,24,48	87	3000VAC	RoHS, CE, CB
L065-10B	65W	85-264VAC/100-370VDC	5,9,12,15,24,48	87	3000VAC	RoHS, CE, CB

## 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)	Certification
L010-10J	10W	85-264VAC/120-370VDC	Triple outputs available (3.3V-24V)	Positive and negative voltage available (±5V to ±24V)	Positive and negative voltage available (±5V to ±70V)	RoHS

## 30-240W DIN35 package LI series

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi (%) (Typ)	Isolation	Certification
LI30-20BxxPR2 <b>NEW</b>	30W	85-264VAC/120-370VDC	5,12,15,24,48	90	4000VAC	RoHS, CE
LI60-20BxxPR2 <b>NEW</b>	60W	85-264VAC/120-370VDC	5,12,15,24,48	91	4000VAC	RoHS, CE
LI75-20BxxR2 <b>NEW</b>	75W	90-264VAC/120-373VDC	12,24,48	90	4000VAC	RoHS, CE
LI100-20BxxPR2 <b>NEW</b>	100W	85-264VAC/120-370VDC	12,15,24,48	90	4000VAC	RoHS, CE
LI120-20BxxR2 <b>NEW</b>	120W	90-264VAC/127-370VDC	12,24,48	89	4000VAC	RoHS, CE
LI120-13B (with PFC)	120W	85-305VAC/100-430VDC	12,24	91	3000VAC	RoHS
LI240-10B (with PFC)	240W	85-264VAC/120-370VDC	24,48	93	3000VAC	RoHS, CE, CB

## Parallel redundancy power supply

Series	Input Voltage Range (Vin)	Output Voltage (Vo/typ)	Output Current (Io)	Effi (%) (Typ)	Isolation	Certification
LIR-20	22-60VDC	Vin-0.65V	20A	97	1500VAC	RoHS, CE (pending)

## 80-150W AC/DC LI series specialized for marine engineering device

Series	Power	Input Voltage Range	Output Voltage (VDC)	Output Current (A)	Isolation	Certification
LI80-13C2412-10-ZX	77W	85-305VAC/100-430VDC	24/12/5	2.5/1.0/1.0	3000VAC	RoHS
LI120-10B24-ZX	120W	85-264VAC/100-370VDC	24	5	3000VAC	RoHS
LI150-13B29	150W	85-305VAC/100-430VDC	29	5.2	3000VAC	RoHS

# 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/CB/CCC approval
- Active PFC function is available
- 3-proof customization is available

## 35-350W AC/DC enclosed

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi (%) (Typ)	Isolation	Certification
LM35-23B	35W	85-305VAC/120-373VDC	5,12,15,24	88	4000VAC	RoHS, CE, CB (pending)
LM50-23B	50W	85-305VAC/120-373VDC	5,12,15,24	88	4000VAC	RoHS, CE, CB (pending)
LM75-23B	75W	85-305VAC/120-373VDC	5,12,15,24,48	91.5	4000VAC	RoHS, CE, CB (pending)
LM100-23B	100W	85-305VAC/120-373VDC	5,12,15,24,36,48	91	4000VAC	RoHS, CE, CB (pending)
LM150-23B	150W	85-305VAC/120-373VDC	12,15,24,36,48	89	4000VAC	RoHS, CE, CB (pending)
LM35-20B	35W	85-264VAC/120-373VDC	5,12,15,24	88	4000VAC	RoHS, CE (CCC)
LM35-22B	35W	165-264VAC/180-373VDC	5,12,15,24	88	4000VAC	RoHS, CE (CCC)
LM35-10C	35W	85-264VAC/120-373VDC	+5/+12/-12, +5/+15/-15, +5/+24/+12	81	3000VAC	RoHS, CE
LM35-10D	35W	85-264VAC/120-373VDC	+5/+12, +5/+24	83	3000VAC	RoHS, CE
LM50-20B	50W	85-264VAC/120-373VDC	5,12,15,24	88	4000VAC	RoHS, CE (CCC)
LM50-22B	50W	165-264VAC/180-373VDC	5,12,15,24	88	4000VAC	RoHS, CE (CCC)
LM50-10C	50W	85-264VAC/120-373VDC	+5/+12/-12, +5/+15/-15, +5/+24/+12	85	3000VAC	RoHS, CE
LM50-10D	50W	85-264VAC/120-373VDC	+5/+12, +5/+24	84	3000VAC	RoHS, CE
LM75-20B	75W	85-264VAC/120-373VDC	5,12,15,24,48	91.5	4000VAC	RoHS, CE (CCC)
LM75-22B	75W	165-264VAC/200-373VDC	5,12,15,24,48	91.5	4000VAC	RoHS, CE (CCC)
LM75-10C	75W	90-264VAC/120-373VDC	+5/+12/-12, +5/+15/-15, +5/+24/+12	84	3000VAC	RoHS, CE
LM75-10D	75W	90-264VAC/120-373VDC	+5/+12, +5/+24	84	3000VAC	RoHS, CE
LM100-20B	100W	85-264VAC/120-373VDC	5,12,15,24,36,48	91	4000VAC	RoHS, CE (CCC)
LM100-22B	100W	165-264VAC/200-373VDC	5,12,15,24,36,48	91	4000VAC	RoHS, CE (CCC)
LM100-10C	100W	90-264VAC/120-373VDC	+5/+12/-12, +5/+15/-15, +5/+24/+12	85	3000VAC	RoHS, CE
LM100-10D	100W	90-264VAC/120-373VDC	+5/+24, +12/+24	87	3000VAC	RoHS, CE
LM150-20B	150W	85-264VAC/120-373VDC	12,15,24,36,48	89	4000VAC	RoHS, CE (CCC)
LM150-22B	150W	165-264VAC/180-373VDC	12,15,24,36,48	89	4000VAC	RoHS, CE (CCC)
LM200-10B	200W	90-132VAC/180-264VAC	5,12,15,24,36,48	89.5	3000VAC	RoHS, CE (CCC)
LM200-12B	200W	176-264VAC/240-373VDC	5,12,15,24,36,48	89.5	3000VAC	RoHS, CE (CCC)
LM350-10B	350W	90-132VAC/180-264VAC	5,12,15,24,36,48	88.5	3000VAC	RoHS, CE (CCC)
LM350-12B	350W	176-264VAC/240-373VDC	5,12,15,24,36,48	89	3000VAC	RoHS, CE (CCC)

## 75-320W AC/DC enclosed (With PFC)

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi (%) (Typ)	Isolation	Certification
LMF75-20B	75W	85-264VAC/120-370VDC	5,12,15,24,48	89	4000VAC	RoHS, CE, CB (pending)
LMF100-20B	100W	85-264VAC/120-373VDC	5,12,15,24,48	88	4000VAC	RoHS, CE, CB (CCC)
LMF150-20B	150W	85-264VAC/120-373VDC	5,12,15,24,48	90	4000VAC	RoHS, CE, CB (CCC)
LMF200-20B	200W	85-264VAC/120-373VDC	5,12,15,24,48	88	4000VAC	RoHS, CE, CB (pending)
LMF320-20B	320W	85-264VAC/120-373VDC	5,12,15,24,48	90	4000VAC	RoHS, CE, CB (pending)

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 Converter

# PV/PVA Series

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

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Isolation	Certification
LO10-24B	10W	30-280VAC/30-400VDC	5,12,13	77	4000VAC	RoHS
LO20-10C0512-01	18.7W	165-264VAC/230-370VDC	5, ±12	78	3000VAC	RoHS
LO30-10C0512-12	31.2W	85-264VAC/100-370VDC	5, ±12	78	3000VAC	RoHS
LH10-10BxxER2	10W	85-264VAC/100-370VDC	5,12,24	81	3000VAC	RoHS
LHE10-20DxxER2	10W	85-264VAC/100-370VDC	5/12,5/24	77	4000VAC	RoHS
LH15-10BxxER2	15W	85-264VAC/100-370VDC	5,12,24	83	3000VAC	RoHS
LH15-10DxxER2	15W	85-264VAC/100-370VDC	5/12,5/24	80	3000VAC	RoHS
LH25-10BxxER2	25W	85-264VAC/100-370VDC	5,12,15,24	85	3000VAC	RoHS,
LM30-00J0512-03E	30W	85-264VAC/100-370VDC	5/±12/24	83	2000VAC	RoHS

## 5-25W AC/DC converter specialized for medical

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Isolation	Certification
LD05-20BxxMU	5W	85-264VAC/100-370VDC	5,12,15,24	81	4000VAC	RoHS,
LD08-20BY4	7.6W	85-264VAC/100-370VDC	3.8	74	4000VAC	RoHS,
LH15-20BxxMU	15W	85-264VAC/100-370VDC	5,12,15,18,24	86	4000VAC	RoHS,
LH25-20BxxMU	25W	85-264VAC/100-370VDC	5,12,15,18,24	89	4000VAC	RoHS,

## 300W 165-264VAC input AC/DC battery charging module power supply

Series	Power	Instantaneous power	Input Voltage Range	Load voltage /current	Float voltage /charge current	Effi(%) (Typ)	Certification
MBP300-2A27D27M	40.5W	270W/15s,432W/1s	165-264VAC	27V/1A	27V/0.5A	80	RoHS

## AC/DC converter specialized for white goods meet EN50155

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Isolation	Certification
LD03-20BxxWG	3W	85-264VAC/120-373VDC	5,12,24	75	4000VAC	RoHS,
LS05-13BxxSR2S	5W	85-305VAC/70-430VDC	3,3.5,9,12,15,24	79	3000VAC	RoHS,
LDE10-20Bxx	10W	85-264VAC/100-370VDC	3,3.5,9,12,15,24	83	4000VAC	RoHS,

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

Series	Power	Instantaneous power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Isolation	Certification
LDE03-20Bxx-0	3W	12W/10S	85-264VAC/100-370VDC	3,3.5,9,12,15,24	80	4000VAC	RoHS,   (pending)

## Bus power supply for smart building

Series	Power	Input Voltage Range	Output Voltage (VDC)	Output Current (mA)	Effi(%) (Typ)	Isolation	Certification
KNX20-22A640	20W	180-264VAC/254-370VDC	30	640	86	4000VAC	RoHS

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

Series	Power	Input Voltage Range	Output Voltage Vo(VDC)	Output Voltage Vo1(VDC)	Effi(%) (Typ)	Certification
LSF01-K5B12SS	1W	15-380VDC	12.5	5V through peripheral	73	RoHS



### PV Series

- Specialized for PV industry
- Ultra-wide input voltage
- Isolation: 4000VAC
- Operating temperature: -40°C to +85°C
- Operating elevation up to 5000m
- PCB, chassis mounting, DIN-Rail mounting, mental cage packages

### PVA Series

- Specialized for mining industry
- Ultra-wide input voltage: 85-900VAC
- Isolation up to 4000VAC
- Simple wiring, compact size
- Immunity, EFT/Surge: ±4KV perf. Criteria B

## Ultra-wide input voltage DC/DC converter

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Isolation	Certification
PV05/10/15-27BxxR2	5W,10W,15W	100-1000VDC	5,9,12,15,24	80	4000VAC	RoHS,
PV10-27C	10W	200-1200VDC	5/5/24	72	4000VAC	RoHS
PV15-29BxxL	10W,15W	200-1500VDC	5,12,15,24	79	4000VAC	RoHS
PV15-29B	10W,15W	200-1500VDC	5,12,15,24	74	4000VAC	RoHS,
PV15-29C	15W	200-1500VDC	5/5/5,5/5/24	76	4000VAC	RoHS
PV40-27B	40W	200-1200VDC	12,15,24	84	4000VDC	RoHS
PV40-29B	40W	200-1500VDC	12,15,24	83	4000VAC	RoHS,
PV45-29D	45W	150-1500VDC	12V/15V/24V dual outputs (customization is acceptable)	78	4000VAC	RoHS
PV50-29D	50W	150-1500VDC	12V/15V/24V dual outputs (customization is acceptable)	78	4000VAC	RoHS
PV60-27D	60W	200-1100VDC	12/15	85	4000VAC	RoHS
PV75-36D <b>NEW</b>	75W	250-3300VDC	15,400	70	6000VAC	RoHS
PV120-27B	90W,100W,120W	200-1100VDC	12,15,24,48	89	4000VAC	RoHS
PV150-29B <b>NEW</b>	120W,150W	250-1500VDC	12,15,24,48	88	4000VAC	RoHS
PV200-27B	120W,150W,200W	200-1000VDC	12,15,24,26,48	87	4000VAC	RoHS,
PV200-29B	200W	300-1500VDC	24,48	87	4000VAC	RoHS,


## AC/DC converter specialized for mining industry

Series	Power	Input Voltage Range	Output Voltage (VDC)	Effi(%) (Typ)	Isolation	Certification
PVA40-26B	40W	460-1500VAC	12,28,35	85	4200VAC	RoHS
PVA40-27B	40W	85-900VAC	18,24,30	86	4000VAC	RoHS
PVA70-27B	70W	85-900VAC	24,28,35	87	4000VAC	RoHS
PVA120-27B	120W	85-900VAC	28,35	82	4000VAC	RoHS
PVA120-27B-C	120W	85-900VAC	35	82	4000VAC	RoHS

# IGBT Driver/EMC Auxiliary Device


# Industrial Bus Isolation Transceiver Module/ Isolation Transmitter Selection Guide

## DC/DC converter for IGBT driver



Series	Input Voltage (VDC)	Input Voltage Range(VDC)	Positive/Negative Output(VDC)	Output Current(mA)	Effi.(%) (Typ)	Isolation	Certification
QA051C	5	4.5-5.5	+20/-5	+80/-40	75	3000VAC	RoHS
QA02	12	11.6-12.4	+15/-8.7	+80/-40	80	3000VAC	RoHS, CE, CB
QA01	15	14.5-15.5	+15/-8.7	+80/-40	80	3000VAC	RoHS, CE, CB
QA01-17	15	14.5-15.5	+17/-8.7	+80/-40	77	3000VAC	RoHS, CE, CB
QA03	24	23.3-24.7	+15/-8.7	+80/-40	80	3000VAC	RoHS, CE, CB
QA04	12	9-15	+15/-8	+100/-80	80	3000VAC	RoHS, CE, CB
QA1201C-20	12	10.8-13.2	+20/-4	+100/-100	80	3500VAC	RoHS
QA15115R2	15	13.5-16.5	+15/-2.5	+100/-100	80	3500VAC	RoHS
QA151C3	15	13.5-16.5	+15/-4	+100/-100	77	3000VDC	RoHS
QA01C-18	15	13.5-16.5	+18/-3	+100/-100	83	3500VAC	RoHS
QA01C	15	13.5-16.5	+20/-4	+100/-100	83	3500VAC	RoHS, CE, CB
QA151M	15	14.4-15.9	+15/-5	+100/-100	80	3500VAC	RoHS
QA2401C-20	24	21.6-26.4	+20/-4	+100/-100	83	3500VAC	RoHS
QA121C2	12	10.8-13.2	+15/-3.5	-111/-111	78	3500VAC	RoHS
QA121	12	11.4-12.6	+15/-8	+120/-120	81	3000VAC	RoHS
QA241	24	22.8-25.2	+15/-8	+120/-120	81	3000VAC	RoHS
QA156D-24	15	13.5-16.5	+24/-	+150/-	80	12000VDC	RoHS, CE
QAU242D2G	24	9-36	+24/+24	+150/+150	85	4200VAC	RoHS
CQAW01	12	7-18	+15/-9	+200/-200	81	3000VAC	RoHS
QAW01	12	9-18	+15/-9	+200/-200	85	3500VAC	RoHS
QA152D	15	13.5-16.5	+15/-9	+200/-200	83	4000VAC	RoHS, CE
QAW02	24	18-36	+15/-9	+200/-200	85	3000VDC	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
QP12W08S-37	1700V	15	+15V/-9V	±8A	20KHz	1	3750VAC

## EMC Auxiliary Device




Series	Function	Input Voltage Range	Max. Output Power/Current	Certification
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



Series	Function	Power Supply	Data Rate	Nodes	Certification
TD321/521D485-L NEW	Low power consumption single RS485 isolated transceiver module	3.17-3.45,4.75-5.25VDC	19.2kbps	16	RoHS, CE
TD331/531S485-L NEW	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 NEW	SMD single RS485 isolated transceiver module	3.15-3.45,4.75-5.25VDC	19.2kbps	64	RoHS, CE
TDH301/501D485H	Single high-rate high isolation RS485 isolated transceiver module	3.17-3.45,4.75-5.25VDC	115.2kbps	32	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 NEW	SMD single high-rate RS485 isolated transceiver module	3.15-3.45,4.75-5.25VDC	150kbps	128	RoHS, CE
TD331/531S485H-A NEW	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 NEW	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 NEW	SMD single high-rate RS485 isolated transceiver module (enhanced)	3.15-3.45,4.75-5.25VDC	500kbps	256	RoHS, CE
TD331/531S232H NEW	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
TD321/521DCAN	Single universal CAN isolated transceiver module	3.15-3.45,4.75-5.25VDC	5k-1Mbps	110	RoHS, CE, CB
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
TD301/501MCAN	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 NEW	SMD single high-rate CAN isolated transceiver module	3.15-3.45,4.75-5.25VDC	40k-1Mbps	110	RoHS, CE
CTD331/531SCANH NEW	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 NEW	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

## Signal isolator/ isolation barrier



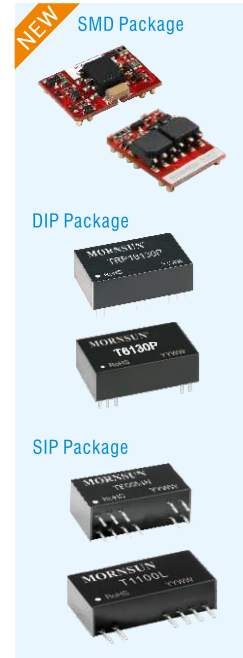
Series	Function	Input Signal	Output Signal	Feature
TAx0W	Analog signal	4-20mA,0-10V	0/4-20mA,0-10V	DIN-Rail power supply
TAx05W	DC current input analog signal	4-20mA	4-20mA,1-5V,0-10V	DIN-Rail power supply
TAx06W	Passive Barrier	4-20mA	4-20mA	/
TRxx0PW	Programmable RTD	Pt100,Cu50,Cu100	0/4-20mA,0/1-5V,0/2-10V	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/LED driver Transformer Selection Guide

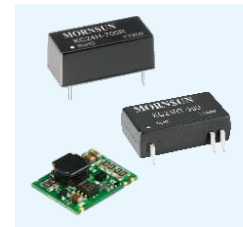
# IC Selection Guide

## Signal Conditioning Module



Series	Function	Input Signal	Output Signal	Isolation	Certification
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 <b>NEW</b>	SMD signal self-driving module	0-2.5V,0-5V,0-10V	0/4-10mA,0-2.5/5/10V	2500VDC	RoHS CE (pending)
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 <b>NEW</b>	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	Certification
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 <b>NEW</b>	6-36VDC	3.3-36	300,700	94	SMD	RoHS

## Transformer



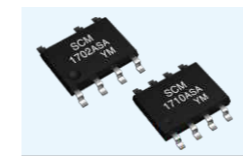
Series	Power	Input Voltage Range	Output Voltage (VDC)	Output Channels	Control Mode	Bobbin	Package	Isolation	Certification
TSHT5.8-01	1W	4.5-5.5VDC	5	1	push-pull	/	SMD	3000VDC	RoHS
TTB05xx-1T <b>NEW</b>	1W	4.5-5.5VDC	5,9	1	push-pull	/	SMD	1650VDC	RoHS
TTURB-6T <b>NEW</b>	6W	9-36VDC	5	1	flyback	ER11.5	SMD	1650VDC	RoHS
TTURA-10T <b>NEW</b>	10W	9-36,18-75VDC	±5, ±15	2	flyback	ER11.5	SMD	1650VDC	RoHS
TTURB-10T <b>NEW</b>	10W	9-36,18-75VDC	5	1	flyback	ER11.5	SMD	1650VDC	RoHS
TTURB-20T <b>NEW</b>	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)



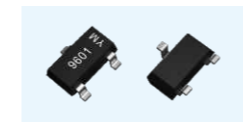
Series	Power	Input Voltage Range	Output Voltage (VDC)	Output Channels	Control Mode	Bobbin	Package	Isolation	Certification
CTTF-1T	1W	4.5-5.5VDC	5	1	push-pull	/	SMD	3000VDC	RoHS
CTTFB-1T	1W	4.5-5.5VDC	5	1	push-pull	/	SMD	3000VAC/4250VDC	RoHS
CTTURB-6T	6W	9-36VDC	5	1	flyback	ER11.5	SMD	1650VDC	RoHS
CTTURA-10T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

## AC/DC power control IC



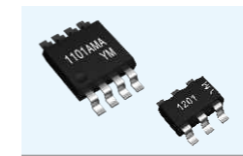
Series	Power	Topology	Control Mode	Fsw <sup>1</sup> (kHz)	Vds(max) (V)	HV <sup>2</sup>	OTP <sup>3</sup>	OVP <sup>4</sup>	OCP <sup>5</sup>	Package
SCM1702A	≤5W	flyback	current mode PSR	110	650	built-in	built-in	built-in	built-in	SOP-7
SCM1703A	≤5W	flyback	current mode SSR	110	650	built-in	built-in	built-in	built-in	SOP-7
SCM1710A	5-60W	flyback	current mode SSR	110	/	/	external	built-in	built-in	SOP-8

## AC/DC power start-up IC



Series	Input Voltage Range	Ivdd(min) (mA)	Ivdd(max) (mA)	Operating Junction Temperature	Vvdd(max) (V)	Package
SCM9601A	40-700VDC	0.8	4	-40°C to +125°C	20	SOT-23
SCM9602A	40-700VDC	1	4	-40°C to +125°C	20	SOT-23

## DC/DC power control IC



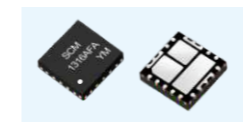
Series	Power	Topology	Control Mode	Vds(max) (V)	OTP <sup>3</sup>	OCP <sup>5</sup>	SCP <sup>6</sup>	UVLO <sup>7</sup>	OLP <sup>8</sup>	Package
SCM1101A	5-40W	flyback/forward	current mode	480	/	built-in	built-in	built-in	built-in	MSOP-8
SCM1201A	≤1W	push-pull	current mode	/	built-in	/	built-in	built-in	/	SOT-23-6
SCM1212A	≤1W	push-pull	current mode	/	built-in	/	built-in	built-in	/	SOT-23-5

## DC/DC power start-up IC



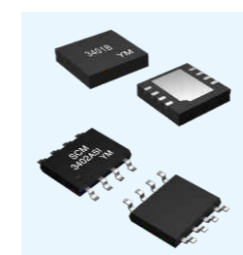
Series	Input Voltage Range	Ivdd(min) (mA)	Ivdd(max) (mA)	Operating Junction Temperature	Vvdd(max) (V)	Package
SCM9603B	4-85VDC	2.3	20	-40°C to +125°C	10	SOT-23

## DC/DC power non-isolated buck control IC



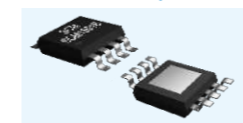
Series	Vcc(V)	Output Current (max) (A)	Switching Frequency (KHz)	Operating Junction Temperature	Synchronous Rectification	Package
SCM1301A	4.5-40	1	700	-40°C to +150°C	/	TSOT23-6L
SCM1316A	7-38	6	130-300	-40°C to +150°C	✓	QFN5*5-20

## Interface IC



Series	Vcc(V)	Data Bus	Duplex Mode	Nodes	NO. of TX	NO. of TR	Baud Rate (Mbps)	Package
SCM3401A	4.5-5.5	RS485	Half	256	1	1	1	SOP-8
SCM3401B	4.5-5.5	RS485	Half	256	1	1	1	DFN 3X3
SCM3402A	3.0-3.6	RS485	Half	256	1	1	12	SOP-8
SCM3421A	4.5-5.5	CAN	Half	110	1	1	1	SOP-8
SCM3422A	4.5-5.5	CAN	Half	110	1	1	1	SOP-8
SCM3423A	4.5-5.5	CAN	Half	110	1	1	1	SOP-8

## Contact power saving controller IC



Series	Vcc(V)	Fast Shutdown Function	F <sub>BUCK</sub> <sup>9</sup>	V <sub>ACT_AC</sub> <sup>10</sup>	V <sub>OFF_AC</sub> <sup>11</sup>	Package
SCM1501B	16.5-500	✓	23.5kHz	2.4V	1.6V	ESOP-8
SCM1502A	7-40	✓	23.7kHz	0.8V	0.6V	ESOP-8

Note:

Fsw<sup>1</sup>: operating switching frequency

OVP<sup>4</sup>: over-voltage protection

UVLO<sup>7</sup>: under-voltage lockout

V<sub>ACT\_AC</sub><sup>10</sup>: VT pin contactor operating voltage

HV<sup>2</sup>: internal high voltage start-up switch

OCP<sup>5</sup>: over-current protection

OLP<sup>8</sup>: open-loop protection

V<sub>OFF\_AC</sub><sup>11</sup>: VT pin contactor turn-off voltage

OTP<sup>3</sup>: over-temperature protection

SCP<sup>6</sup>: short circuit protection

F<sub>BUCK</sub><sup>9</sup>: post-stage average switching frequency

# Caution

## ■ Purpose:

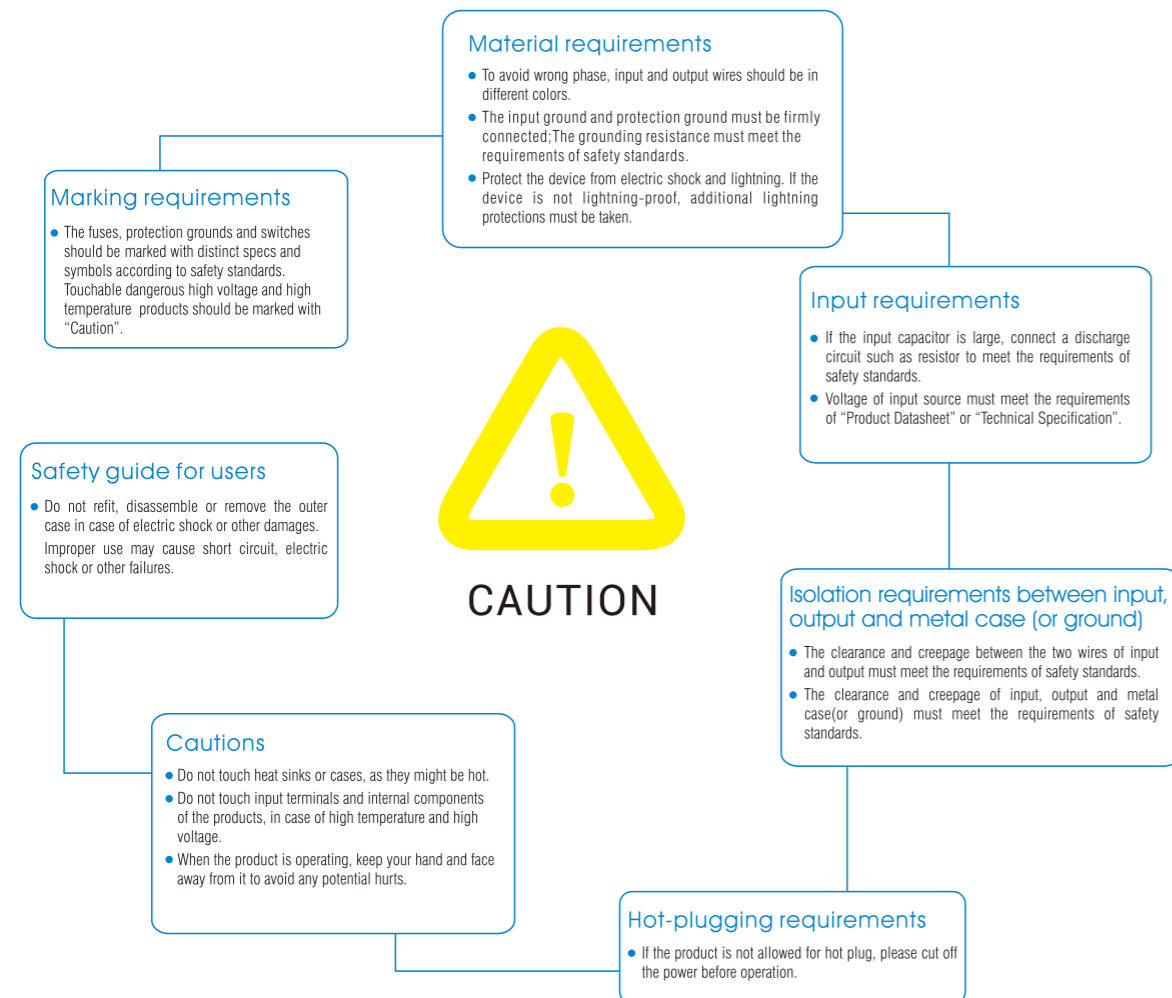
To prevent potential safety problems while using the products.

## ■ 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 to the requirements of Product Datasheet.



More information about application, please contact us.

Tel: 020-38601850 E-mail: fae800@mornsun.cn

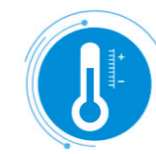
# 35-350W ENCLOSED

## SWITCHING POWER SUPPLY

**COST DOWN**  
without compromising quality



Isolation voltage  
up to 4000VAC



Operating temperature  
-30°C to 70°C



PFC function  
available



EMI meets  
CISPR32/EN55032  
Class B



EN62368 approval  
Meets IEC/UL62368/  
EN60335



Datasheet