

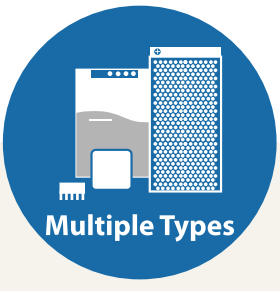
Why MEAN WELL DC-DC Converter

MEAN WELL, initially focused on AC/DC enclosed industrial power supplies, introduced the SD series of enclosed DC-DC power supplies in 1996 to meet market demand. Since then, we have expanded to offer a wide range of installation options, including board-mounted, encapsulated modules, and DIN rail models. Our DC-DC product line stands out for its industry-leading variety of installation methods, providing a comprehensive AC-DC and DC-DC power solution to meet one-stop sourcing needs.

MEAN WELL offers a comprehensive AC-DC and DC-DC solution, providing versatile installation options to meet diverse industry needs. For industrial automation, the SD series and small modules are highlighted, while the RSD and DDR series cater to railway-certified applications. The MDS and MDD series serve the medical sector, with DDRH and RSDH specialized for photovoltaic energy storage, and the LDD and NHDD series tailored for LED lighting. Moving forward, we will continue to expand into emerging sectors such as smart meters, smart homes, and data centers, further broadening our application range.









MEAN WELL

HEADQUARTERS
www.meanwell.com
+886-2-2299-6100
info@meanwell.com

USA
www.meanwellusa.com
+1-510-683-8886
info@meanwellusa.com

EUROPE
www.meanwell.eu
+31-20-758-6000
info@meanwell.eu

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

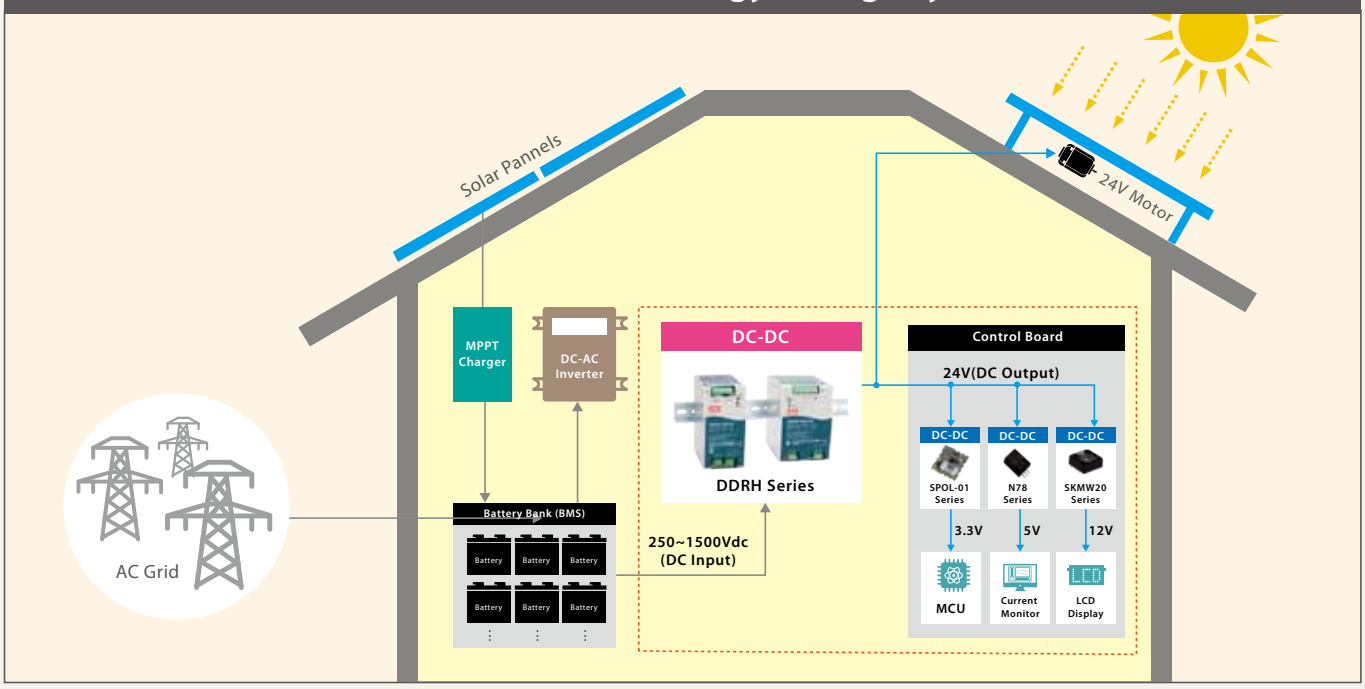
Power Solutions

Photovoltaic Energy Storage Applications



In response to the growing demand for high-to-low voltage DC-DC converters driven by net-zero carbon goals, especially in photovoltaic, energy storage, and wind energy sectors, MEAN WELL offers the DDRH and RSDH series (15-300W) with multiple installation options.

Home Photovoltaic Energy Storage System



Features

1. 150~1500Vdc or 250~1500Vdc ultra-wide voltage input (depends on the model), suitable for photovoltaic string or battery stack connections to high voltage.
2. Fanless design, internal potting or PCB conformal coating (depends on model), high reliability.

Compliant Certification

UL1741, EN62109-1

Model	Picture	Watt.	Vin (Vdc)	Vout (Vdc)	Dimension (L x W x H mm)	Spec.
DDRH-15		15W	150~1500V	5V, 12V, 15V, 24V	P : 76.2 x 50.8 x 25 ST : 122.3 x 57.3 x 32 DR : 122.3 x 57.3 x 43.5	
DDRH-30		30W		12V, 15V, 24V, 48V	P : 89 x 63.5 x 25 ST : 135 x 70 x 32 DR : 135 x 70 x 43.5	
DDRH-45		45W				
DDRH-60		60W		5V, 12V, 24V, 48V	57 x 93.5 x 105	
DDRH-120		120W	250~1500V	12V, 24V, 32V, 48V	63 x 125.2 x 115	
DDRH-240		240W			85.5 x 125.2 x 129.2	
RSDH-150		150W	250~1500V	12V, 24V, 32V, 48V	191 x 86 x 41	
RSDH-300		300W			237 x 86 x 41	

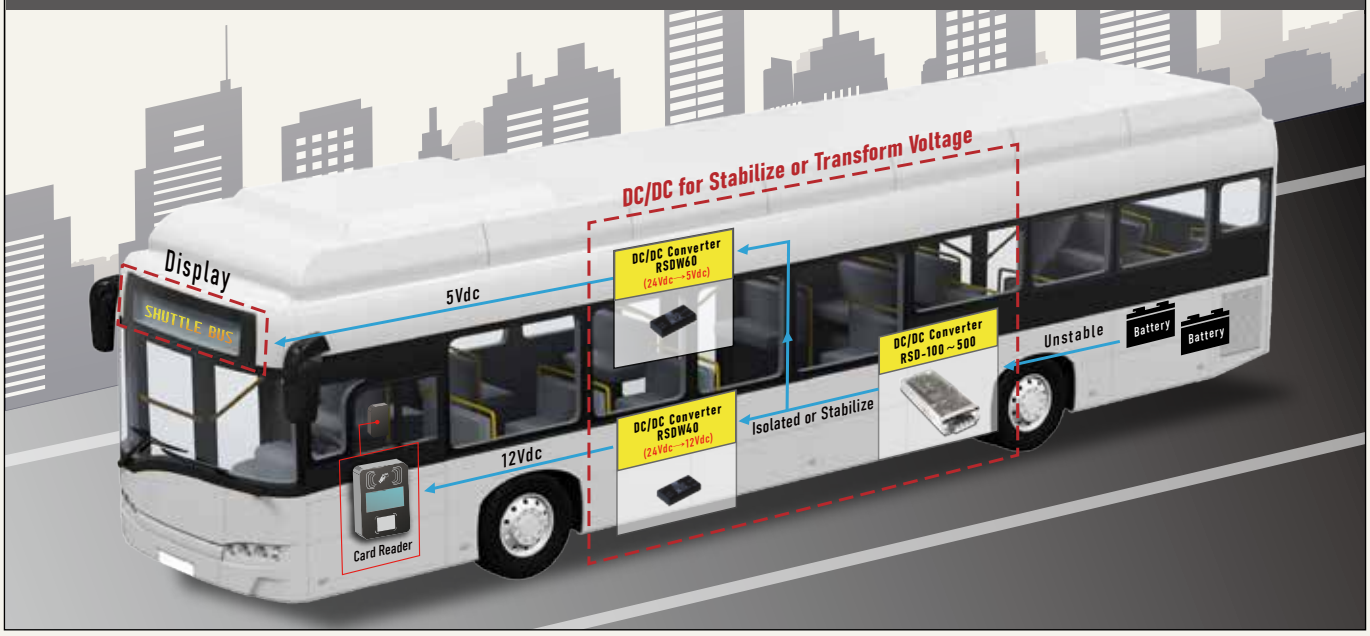
Power Solutions

Railway Transportation Applications



MEAN WELL's railway DC-DC converters offer a full range of power outputs from 8 to 500 watts, available in various installation options, including board-mount encapsulated module types, wire-lock flat enclosure types, and wire-lock vertical DIN rail types that are all certified with the railway safety standard EN50155.

Power Supply Applications for Internal Equipment on Shuttle Buses: Card readers, LED displays



Features

Wide input range of 2:1, 4:1, and 18:1 (depends on the model)

Compliant Certification

EN50155

Model	Picture	Watt.	Vin (Vdc)	Vout (Vdc)	Dimension (L x W x H mm)	Spec.
RSDW08		8W	24V (9~36V), 48V (18~75V)	3.3V, 5V, 12V, 15V	31.8 x 20.3 x 10.2	
RDDW08				±5V, ±12V, ±15V		
RSDW10		10W	110V (43~160V)	3.3V, 5V, 12V, 15V	31.8 x 20.3 x 12.7	
RDDW10				±5V, ±12V, ±15V		
RSDW20		20W	12V, 24V, 48V, 72V, 96V, 110V (8.5~160V)	3.3V, 5V, 12V, 15V	50.8 x 25.4 x 10.2	
RDDW20				±5V, ±12V, ±15V		
RSDW20UW				5V, 12V, 15V		
RDDW20UW				±12V, ±15V, ±24V		
RSDW40		40W	24V (9~36V), 48V (18~75V) 110V (40~160V)	3.3V, 5V, 12V, 15V, 24V, 48V	50.8 x 25.4 x 10.5	
RDDW40				±12V, ±15V		
RSDW60		60W		3.3V, 5V, 12V, 15V, 24V, 48V		
RDDW60				±12V, ±15V		
RQB40W12		40W	24V, 36V, 48V, 72V, 96V, 110V (14~160V)	5V, 12V, 24V, 48V, 54V	57.9 x 36.8 x 12.7	
RQB60W12		60W				
RQB150W3		150W	72V, 96V, 110V, (60~160V)	12V, 24V, 48V, 54V		
RQB150W12			24V, 36V, 48V, 72V, 96V, 110V (14~160V)			
RSD-30		30W	9~36V, 18~72V, 40~160V	3.3V, 5V, 12V, 24V	113 x 60 x 25	
RSD-60		60W			128 x 60 x 25	
RSD-100		100W	16.8~31.2V, 33.6~62.4V, 67.2~143V	5V, 12V, 24V	161 x 68 x 36	
RSD-150		150W			189 x 77 x 36	
RSD-200		200W		12V, 24V, 48V	191 x 86 x 40	
RSD-300		300W	16.8~31.2V, 33.6~62.4V, 67.2~143V, 25.2~46.8V, 50.4~93.6V	5V, 12V, 24V, 48V	216 x 96.5 x 40	
RSD-500		500W	16.8~33.6V, 33.6~67.2V, 67.2~154V	12V, 24V, 48V	237 x 100 x 41	
DDR-120		120W	9~18V, 16.8~33.6V, 33.6~67.2V, 67.2~154V	12V, 24V, 48V	32 x 125.2 x 102	
DDR-240		240W	16.8~33.6V, 33.6~67.2V, 67.2~154V	24V, 48V	40 x 125.2 x 113.5	
DDR-480		480W		12V, 24V, 48V	85.5 x 125.2 x 129.2	

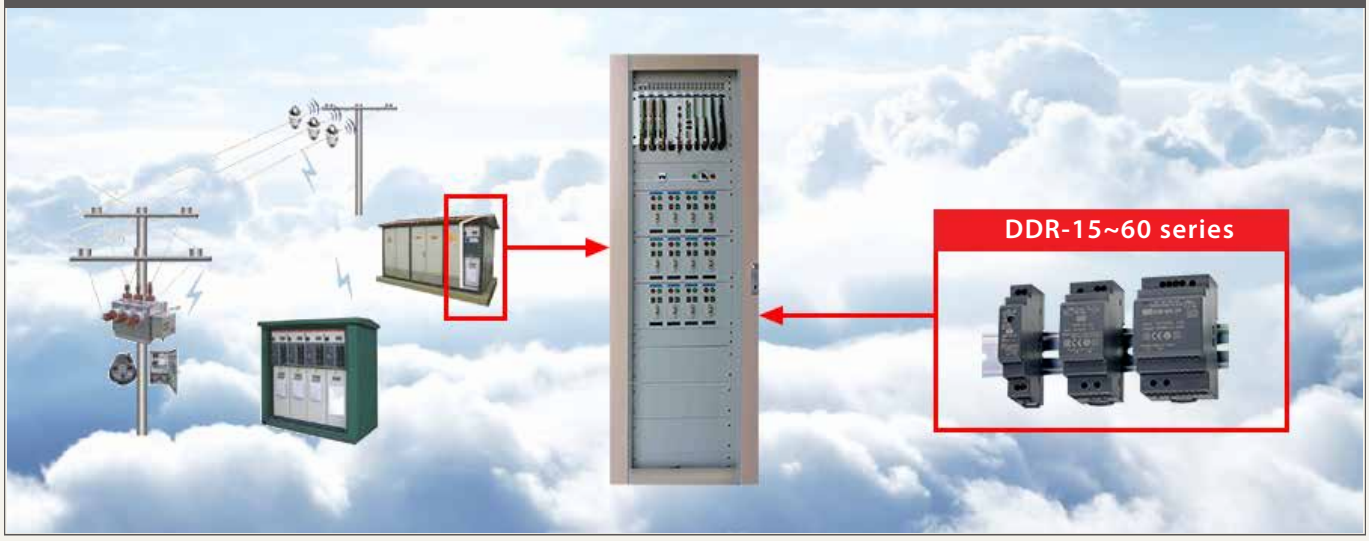
Power Solutions

Industrial Control & ICT Applications



MEAN WELL offers a wide range of power supplies from 0.5W to 1000W, covering four installation types: enclosed, DIN rail, board-mounted, and plug-in. Input voltage options include ±10%, 2:1, 4:1, and 8:1, with single, dual, or triple output configurations. With over 1,000 models available, these solutions are ideal for electronic instruments, ICT equipment, and other applications.

Industrial control equipment applications: Distribution Automation



Features

1. ±10%, 2:1, 4:1, 8:1 various input voltages
2. Four types of mounting options available

Compliant Certification

All Series: ITE62368-1
RSD-30~300, DDR-120~480 Series: ITE62368-1, EN50155

Model	Picture	Watt.	Vin (Vdc)	Vout (Vdc)	Dimension (L x W x H mm)	Spec.
SD-15		15W	9.2~18V, 18~36V, 36~72V	5V, 12V, 24V	78 x 51 x 28	
SD-25		25W			99 x 97 x 36	
SD-50		50W			159 x 97 x 38	
SD-100		100W	9.5~18V, 19~36V, 36~72V, 72~144V		199 x 98 x 38	
SD-150		150W	19~36V, 36~72V, 72~144V	12V, 24V	199 x 110 x 50	
SD-200		200W		5V, 12V, 24V, 48V	215 x 115 x 50	
SD-350		350W				
SD-500		500W	19~72V, 72~144V	12V, 24V, 48V		
SD-1000		1000W			295 x 127 x 41	
RSD-30		30W	9~36V, 18~72V, 40~160V	3.3V, 5V, 12V, 24V	113 x 60 x 25	
RSD-60		60W			128 x 60 x 25	
RSD-100		100W	16.8 ~ 31.2V, 33.6 ~ 62.4V, 67.2 ~ 143V	5V, 12V, 24V	161 x 68 x 36	
RSD-150		150W			189 x 77 x 36	
RSD-200		200W		12V, 24V, 48V	191 x 86 x 40	
RSD-300		300W	16.8 ~ 31.2V, 33.6 ~ 62.4V, 67.2 ~ 143V, 25.2~46.8V, 50.4~93.6V	5V, 12V, 24V, 48V	216 x 96.5 x 40	
RSD-500		500W	16.8~33.6V, 33.6~67.2V, 67.2~154V	12V, 24V, 48V	237 x 100 x 41	
DDR-15		15W	9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V	17.5 x 90 x 54.5	
DDR-30		30W		5V, 12V, 15V, 24V	35 x 90 x 54.5	
DDR-60		60W			52.5 x 90 x 54.5	
DDR-120		120W	9~18V, 16.8~33.6V, 33.6~67.2V, 67.2~154V	12V, 24V, 48V	32 x 125.2 x 102	
DDR-240		240W	16.8~33.6V, 33.6~67.2V, 67.2~154V	24V, 48V	40 x 125.2 x 113.5	
DDR-480		480W		12V, 24V, 48V	85.5 x 125.2 x 129.2	
PSD-15		15W	9.2~18V, 18~36V, 36~72V	5V, 12V, 24V	94 x 49 x 25	
PSD-30		30W	9~18V, 18~36V, 36~72V		101.6 x 50.8 x 30	
PSD-45		45W	9.2~18V, 18~36V, 36~72V		127 x 76 x 30	



Model	Picture	Watt.	Package	Vin (Vdc)	Vout (Vdc)	Dimension (L x W x H mm)	Spec.
NSD05-S		5W	-----	9.2~36V, 18~72V	3.3V, 5V, 12V, 15V	40.6 x 25.4 x 8.3	
NSD10-S		10W		9.8~36V, 22~72V	3.3V, 5V, 9V, 12V, 15V	50.8 x 25.4 x 10	
NSD10-D					±5V, ±12V, ±15V		
NSD15-S		15W		9.4~36V, 18~72V	3.3V, 5V, 12V, 15V	50.8 x 38.1 x 9.82	
NSD15-D					±5V, ±12V, ±15V		
NID35		35W		10.5~53V, 20~53V, 30~53V	4.2V, 5V, 12V, 15V, 24V	50.8 x 13 x 11	
NID65		65W				50.8 x 26 x 11	
NID100		100W				50.8 x 27.5 x 12	
SBTN01		1W	SMD	3.3V, 5V, 12V, 24V ±10%	3.3V, 5V, 9V, 12V, 15V	12.9 x 10.9 x 7.1	
SBTN01-N				5V, 12V, 24V ±10%	5V, 12V, 15V		
SFTN01		1W		5V, 12V, 24V ±10%	5V, 9V, 12V, 15V	15.24 x 10.7 x 7.1	
SFTN01-N							
SFTN02		2W			5V, 12V, 15V	15.24 x 10.9 x 7.1	
SFTN02-N						15.24 x 10.9 x 9.1	
DETN01		1W		5V, 12V, 24V ±10%	±5V, ±12V, ±15V	15.24 x 10.9 x 7.1	
DETN01-N							
DETN02		2W		5V, 12V, 24V ±10%			
DETN02-N						15.24 x 10.9 x 9.1	
SPOL-01		5.5W		3~14V	0.9~5.5V (adjustable)	12.4 x 12.4 x 4	
SPOL-12		66W		3~14.4V	0.6~5.5V (adjustable)	12.19 x 12.19 x 3.1	
N78		1A	SIP	6~36V, 20~36V	3.3V, 9V, ±5V, ±12V, ±15V	10.5 x 7.5 x 16 11.5 x 9.0 x 17.5	
N78-2		2A			1.8V, ±2.5V, ±3.3V, ±5V, ±6.5V, ±9V, ±12V, ±15V	11.5 x 9.0 x 17.5	
SMU01		1W		5V, 12V, 24V ±10%	5V, 9V, 12V, 15V	11.6 x 6.1 x 10.14 11.6 x 7.4 x 10.14	
SMU02		2W			5V, 12V, 15V	11.6 x 7.5 x 10.14	
GD2		2W		12V, 15V, 24V ±10%	-3V, -3.5V, -5V, -9V, -15V, 15V, 17V, 18V, 20V	19.5 x 9.8 x 12.5	
SPU01		1W		5V, 12V, 24V ±10%	5V, 12V, 15V	19.5 x 6.1 x 10.2	
DPU01					±5V, ±12V, ±15V	19.5 x 7.2 x 10.2	
SPUN02		2W			5V, 12V, 15V	19.6 x 7.2 x 10.2	
DPUN02					±5V, ±12V, ±15V		
SPU03		3W			5V, 12V, 15V	19.6 x 7.5 x 10.2	
SPRN01		1W		5V, 12V, 24V, 48V ±10%	5V, 12V, 15V	19.6 x 7.1 x 10.14	
DPRN01					±12V, ±15V		
SPA01				9~18V, 18~36V, 36~75V	5V, 12V, 15V	17.4 x 7.75 x 11.1	
SPAN02		2W		4.5~9V, 9~18V, 18~36V, 36~75V	3.3V, 5V, 12V, 15V	21.8 x 9.2 x 11.1	
DPAN02					±5V, ±12V, ±15V		
SPBW03		3W		9~36V, 18~75V	3.3V, 5V, 12V, 15V	21.8 x 9.2 x 11.1	
DPBW03					±5V, ±12V, ±15V		
SPBW06		6W			3.3V, 5V, 12V, 15V		
DPBW06					±5V, ±12V, ±15V		
SPB09		9W		9~18V, 18~36V, 36~75V	3.3V, 5V, 12V, 15V	24 x 9.6 x 11.2	
DPB09					±5V, ±12V, ±15V		



Model	Picture	Watt.	Package	Vin (Vdc)	Vout (Vdc)	Dimension (L x W x H mm)	Spec.
SRS		0.5W	DIP	5V, 12V, 24V ,48V ±10%	5V, 9V, 12V, 15V	12.7 x 10.16 x 7.1	
SUS01		1W				22.6 x 9.9 x 8.4	
SMA01				5V, 9V, 12V, 15V		12.7 x 10.16 x 7.62	
SLC03		3W		9~18V, 18~36V, 36~75V	5V, 12V, 15V	22.1 x 13.8 x 8.55	
DLC03					±5V, ±12V, ±15V		
SCWN03		3W		4.5~9V, 9~18V, 18~36V, 36~72V	3.3V, 5V, 12V, 15V	31.8 x 20.3 x 10.2	
DCWN03					±5V, ±12V, ±15V		
SCWN06		6W		9~18V, 18~36V, 36~72V	3.3V, 5V, 12V, 15V		
DCWN06					±5V, ±12V, ±15V		
SCW08		8W			5V, 12V, 15V	31.8 x 20.3 x 12.2	
DCW08					±5V, ±12V, ±15V		
SCW12		12W		9~18V, 18~36V, 36~72V	5V, 12V, 15V	31.8 x 20.3 x 12.2	
DCW12					±5V, ±12V, ±15V		
SCW20		20W			5V, 12V, 15V		
SI06W8		6W	DIP 1"x 1"	9~75V	3.3V, 5V, 9V, 12V, 15V, 24V	25.4 x 25.4 x 10.2	
DI06W8					±5V, ±12V, ±15V		
SKM10		10W		4.7~9V, 9~18V, 18~36V, 36~75V	3.3V, 5V, 12V, 15V		
DKM10					±5V, ±12V, ±15V		
SKMW15		15W		9~36V, 18~75V	3.3V, 5V, 12V, 15V	25.4 x 25.4 x 10.2	
DKMW15					±5V, ±12V, ±15V		
SKMW20		20W			3.3V, 5V, 12V, 15V		
DKMW20					±12V, ±15V		
SKMW30		30W			3.3V, 5V, 12V, 15V		
DKMW30					±12V, ±15V		
SKMW40		40W			3.3V, 5V, 12V, 15V, 24V	25.4x 25.4x 10.5	
DKMW40					±12V, ±15V		
SLW05		5W	DIP 2"x 1"	9~18V, 18~36V, 36~72V	5V, 9V, 12V, 15V	50.8 x 25.4 x 11.27	
DLW05					±5V, ±12V, ±15V		
SKE10		10W			5V, 12V, 15V, 24V		
DKE10					±5V, ±12V, ±15V, ±24V		
SKA15		15W		9~18V, 18~36V, 36~72V	3.3V, 5V, 12V, 15V	50.8 x 25.4 x 11.27	
DKA15					±5V, ±12V, ±15V		
SKA20		20W		9~18V, 18~36V, 36~75V	5V, 12V, 15V	50.8 x 25.4 x 11.2	
SKM30-N		30W		9~36V, 18~75V	5V, 12V, 15V	50.8 x 25.4 x 11.2	
DKM30-N					±12V, ±15V		
SKM50		50W		18~36V, 36~75V	5V, 12V, 15V	50.8 x 25.4 x 13.7	
SKE15		15W	DIP 2"x 2"	9~18V, 18~36V, 36~72V	5V, 12V, 15V, 24V	50.8 x 50.8 x 11	
DKE15					±5V, ±12V, ±15V, ±24V		
SDM30		30W		9.2~18V, 18~36V, 36~72V	3.3V, 5V	50.8 x 50.8 x 16	
DKA30					±5V, ±12V, ±15V	50.8 x 50.8 x 21	
TKA30					5V, ±12V, 5V, ±15V		
SKA40		40W		9.2~18V, 18~36V, 36~75V	5V, 12V, 15V	50.8 x 50.8 x 11	
SKA60		60W					
MHB75		75W	1/2 Brick	9.2~18V, 18~36V, 36~75V	5V, 12V, 24V	57.9 x 61 x 12.7	
MHB100		100W		18~36V, 36~75V			
MHB150		150W		36~75V			

Power Solutions

Medical Applications



MEAN WELL entered the market of medical power supply in 2000 and currently ranks eighth globally in market share. Offer around 500 models of AC-DC and DC-DC power supplies, ranging from 1 to 1000W. Notably, the DC-DC medical-grade converters include the single-output MDS Series and dual-output MDD Series, both available from 1 to 20W, all compliant with safety standards and known for their durability.

Medical Auxiliary Equipment: Medical Grade Monitor



Features

1. SIP, DIP, 2" x 1" various packages, international standard pin configuration
2. Ultra-low patient leakage current <2 ~ 5μA (depends on the model)
3. Input/output features 6KVdc or 4KVac high isolation

Compliant Certification

Medical 60601-1

Model	Picture	Watt.	Vin (Vdc)	Vout (Vdc)	Isolation Voltage	Dimension (L x W x H mm)	Spec.
MDS01-N		1W	5V(4.5~5.5V) 12V(10.8~13.2V) 24V(21.6~26.4V)	3.3V, 5V, 12V, 15V, ±5, ±12, ±15V	6KVdc	19.7 x 7.1 x 11.5	
MDD01-N							
MDS02-N		2W					
MDD02-N							
MDS03		3W	12V, 48V(9~36V) 24V, 48V(18~75V)	5V, 12V, 15V, ±5, ±12, ±15V	6KVdc/ 4.2KVac	31.8 x 20.3 x 12.2	
MDD03							
MDS06		6W	12V, 24V(9~36V) 24V, 28V(18~75V)				
MDD06							
MDS15		15W	12V(9~18V) 24V(18~36V) 48V(36~75V)	5V, 12V, 15V, 24V	4KVdc	50.8 x 25.4 x 12	
MDS20		20W					

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Power Solutions

LED Lighting Applications



MEAN WELL offers LED lighting DC-DC converters that precisely regulate LED current to extend fixture lifespan and maintain consistent brightness and color uniformity. Our product line includes standard current models of 300mA, 350mA, 500mA, 600mA, 700mA, 1000mA, 1200mA, and 1400mA.

LED Aquarium Lighting

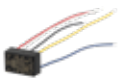


Features

1. Available models with either low voltage (<60Vdc) or high voltage (380Vdc) input
2. Built-in PWM dimming and remote control switch function
3. Two installation types: plug-in board or wired output

Compliant Certification

EN61347, EN55015

Model	Picture	Vin (Vdc)	Vout	Dimension (L x W x H mm)	Spec.
LDD-L		L/LW : 3~32V 6~36V(1000mA) LS : 2~28V	300~1000mA	L/LW : 22.6 x 9.9 x 8.9 LS : 25.4 x 10.5 x 9.3	
LDD-H-DA		6~50V	350~1400mA	40.6 x 23.5 x 10.1	
LDDS-H		12~56V	250~1000mA	47 x 12 x 7	
LDB-L		9~36V	300~600mA	31.8 x 20.3 x 12.2	
LDH-25		9.5~32V	250~700mA	52.4 x 27.2 x 24	
LDH-45		9~18/18~32V	350~1050mA	75 x 53 x 22.7	
LDH-65		9.5~32V	700~1750mA		
NLDD-H		10~56V	350~1400mA	32.1 x 20.5 x 12.5	
NHDD-40		360~420V	100mA	32.1 x 20.5 x 12.5	