

DC-DC Converter Multi-Industry Power Solutions



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.

**0.5W-
1000W**
Full Power

**Wide
Applications**

Multiple Types

**Complete
Certification**



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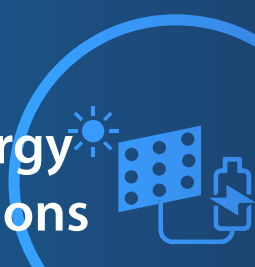
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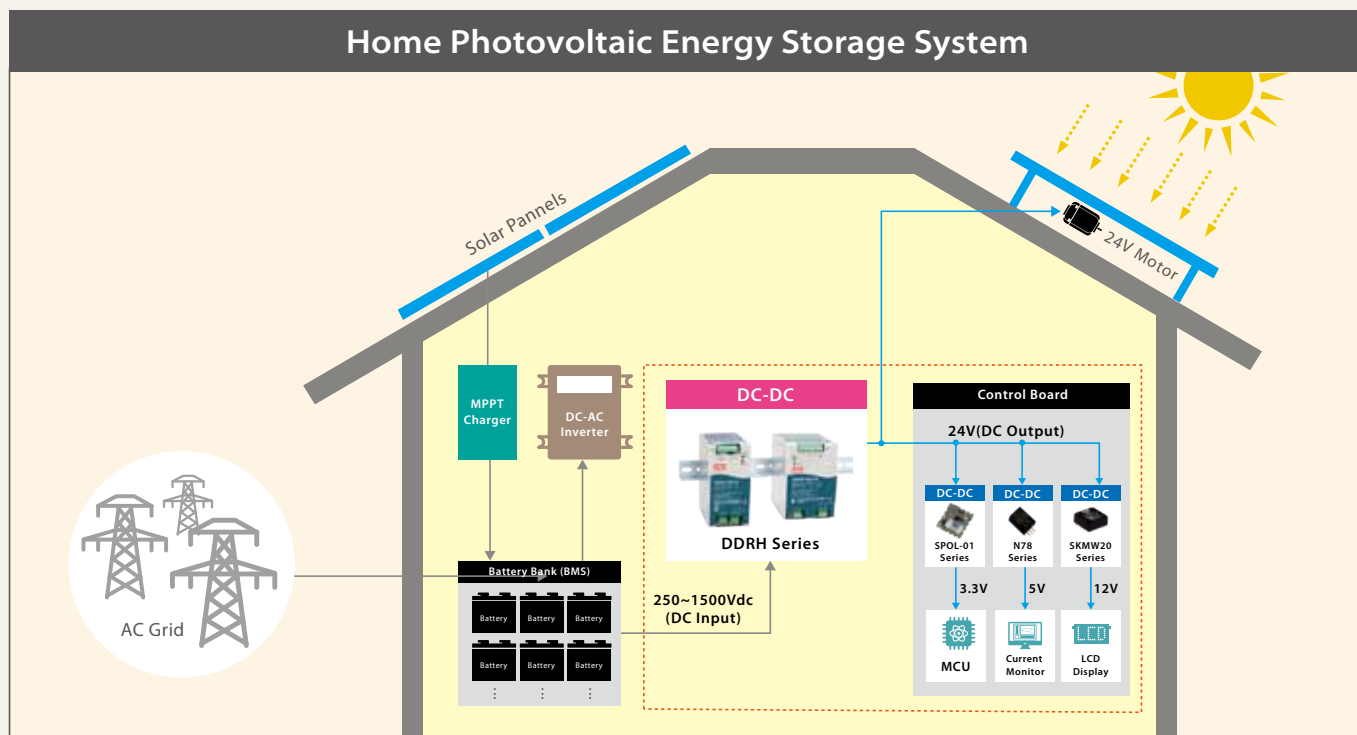
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In response to the growing demand for high-to-low voltage DC-DC converters driven by net-zero carbon goals, especially in photovoltaic, energy storage, and wind energy sectors, MEAN WELL offers the DDRH and RSDH series (15-300W) with multiple installation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



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

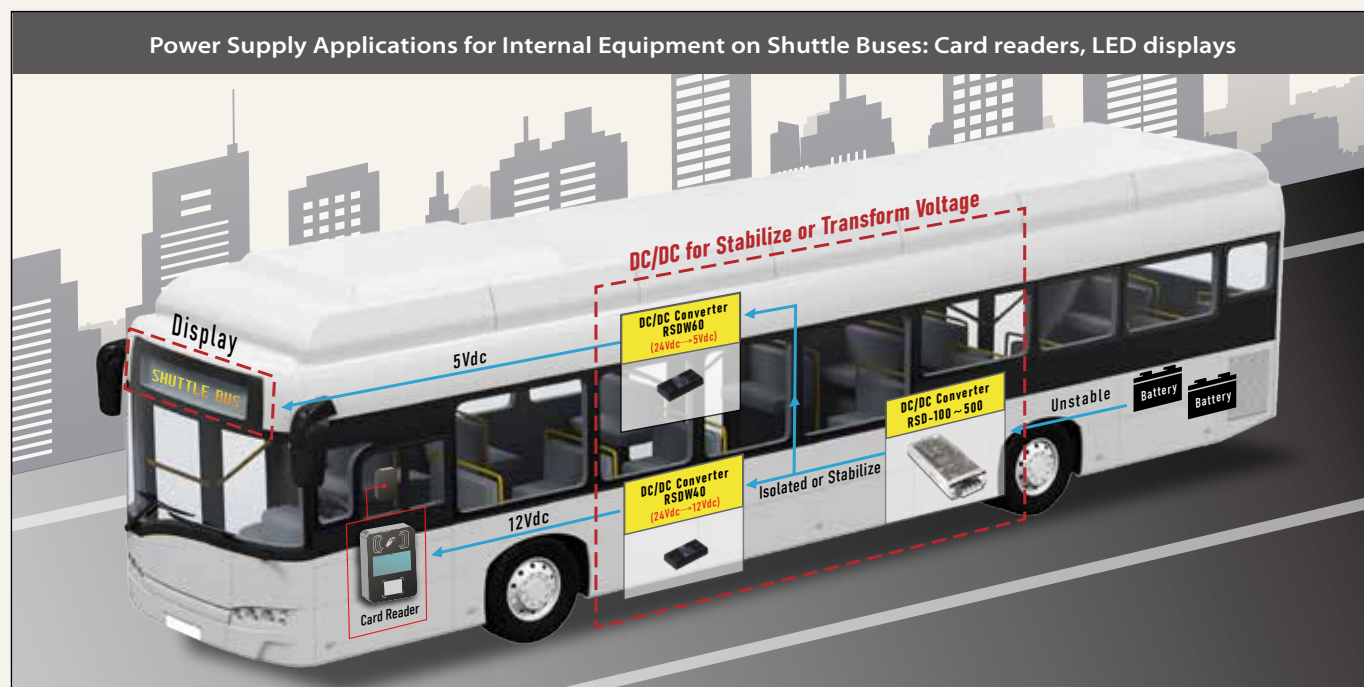
UL1741, EN62109-1

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	250~1500V	5V, 12V, 24V, 48V	57 x 93.5 x 105	
DDRH-120		120W		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.



■ Features

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

■ Compliant Certification

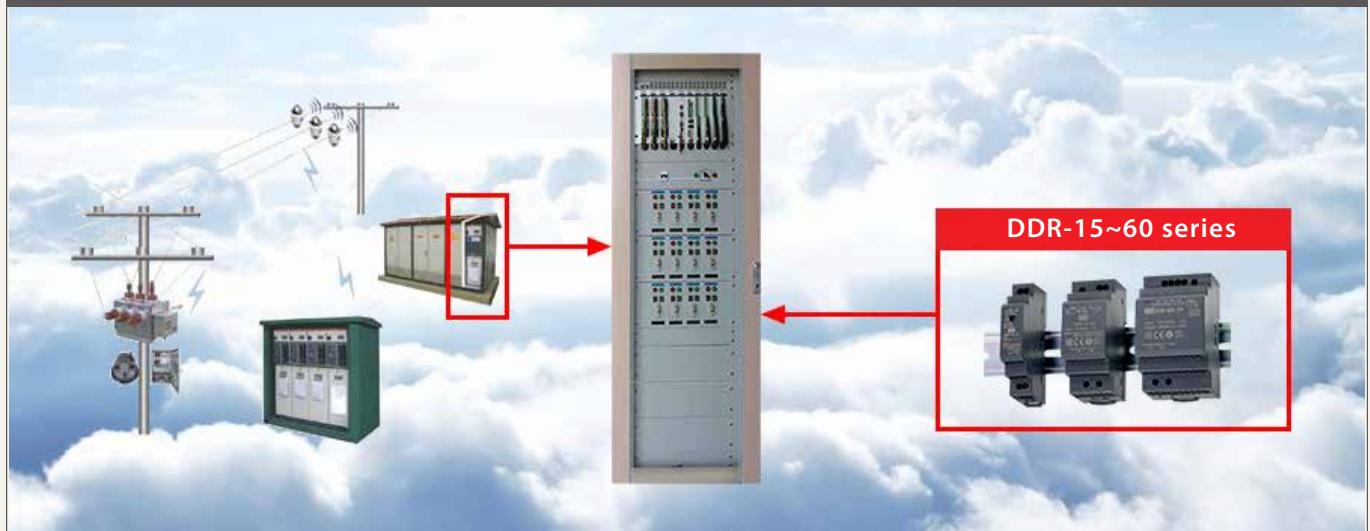
EN50155

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)	3.3V, 5V, 12V, 15V, 24V, 48V	50.8 x 25.4 x 10.5		
RDDW40				±12V, ±15V			
RSDW60		60W	110V (40~160V)	3.3V, 5V, 12V, 15V, 24V, 48V	50.8 x 25.4 x 10.5		
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		



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 $\pm 10\%$, 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. $\pm 10\%$, 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	12V, 24V	199 x 98 x 38	
SD-150		150W	19~36V, 36~72V, 72~144V	5V, 12V, 24V, 48V	199 x 110 x 50	
SD-200		200W			215 x 115 x 50	
SD-350		350W			295 x 127 x 41	
SD-500		500W	19~72V, 72~144V	12V, 24V, 48V	295 x 127 x 41	
SD-1000		1000W	9~36V, 18~72V, 40~160V	3.3V, 5V, 12V, 24V	113 x 60 x 25	
RSD-30		30W			128 x 60 x 25	
RSD-60		60W			161 x 68 x 36	
RSD-100		100W	16.8 ~ 31.2V, 33.6 ~ 62.4V, 67.2 ~ 143V	5V, 12V, 24V	189 x 77 x 36	
RSD-150		150W	16.8 ~ 31.2V, 33.6 ~ 62.4V, 67.2 ~ 143V, 25.2~46.8V, 50.4~93.6V	12V, 24V, 48V	191 x 86 x 40	
RSD-200		200W			216 x 96.5 x 40	
RSD-300		300W		5V, 12V, 24V, 48V	237 x 100 x 41	
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		94 x 49 x 25	
PSD-30		30W	9~18V, 18~36V, 36~72V	5V, 12V, 24V	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					5V, 12V, 15V	15.24 x 10.9 x 7.1				
SFTN02		2W		5V, 12V, 24V ±10%		15.24 x 10.9 x 9.1				
SFTN02-N										
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%		15.24 x 10.9 x 9.1				
DETN02-N										
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		2W		9~18V, 18~36V, 36~75V	5V, 12V, 15V	17.4 x 7.75 x 11.1				
SPAN02				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						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	31.8 x 20.3 x 12.2		
DCWN06				±5V, ±12V, ±15V				
SCW08		8W		5V, 12V, 15V	±5V, ±12V, ±15V			
DCW08								
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		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	25.4 x 25.4 x 10.2			
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				3.3V, 5V, 12V, 15V				
DKMW20				±12V, ±15V				
SKMW30		30W		3.3V, 5V, 12V, 15V	25.4x 25.4x 10.5			
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			50.8 x 25.4 x 11.27
DKE10					±5V, ±12V, ±15V, ±24V			
SKA15		15W		9~18V, 18~36V, 36~72V	3.3V, 5V, 12V, 15V	50.8 x 25.4 x 11.2		
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				3.3V, 5V	50.8 x 50.8 x 16			
DKA30	30W		9.2~18V, 18~36V, 36~72V	±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				



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 $< 2 \sim 5\mu\text{A}$ (depends on the model)
3. Input/output features 6KVdc or 4KVdc 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							
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)	5V, 12V, 15V, 24V	4KVdc	50.8 x 25.4 x 12	
MDS20		20W	48V(36~75V)				

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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.



■ 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	