

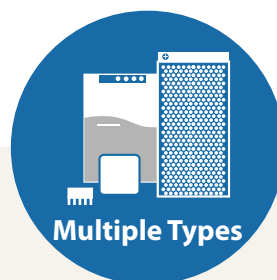
# DC-DC Converter Multi-Industry Power Solutions



## 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.



### HEADQUARTERS

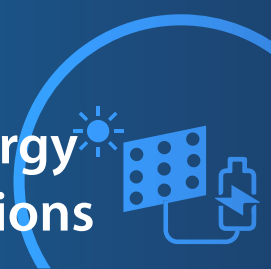
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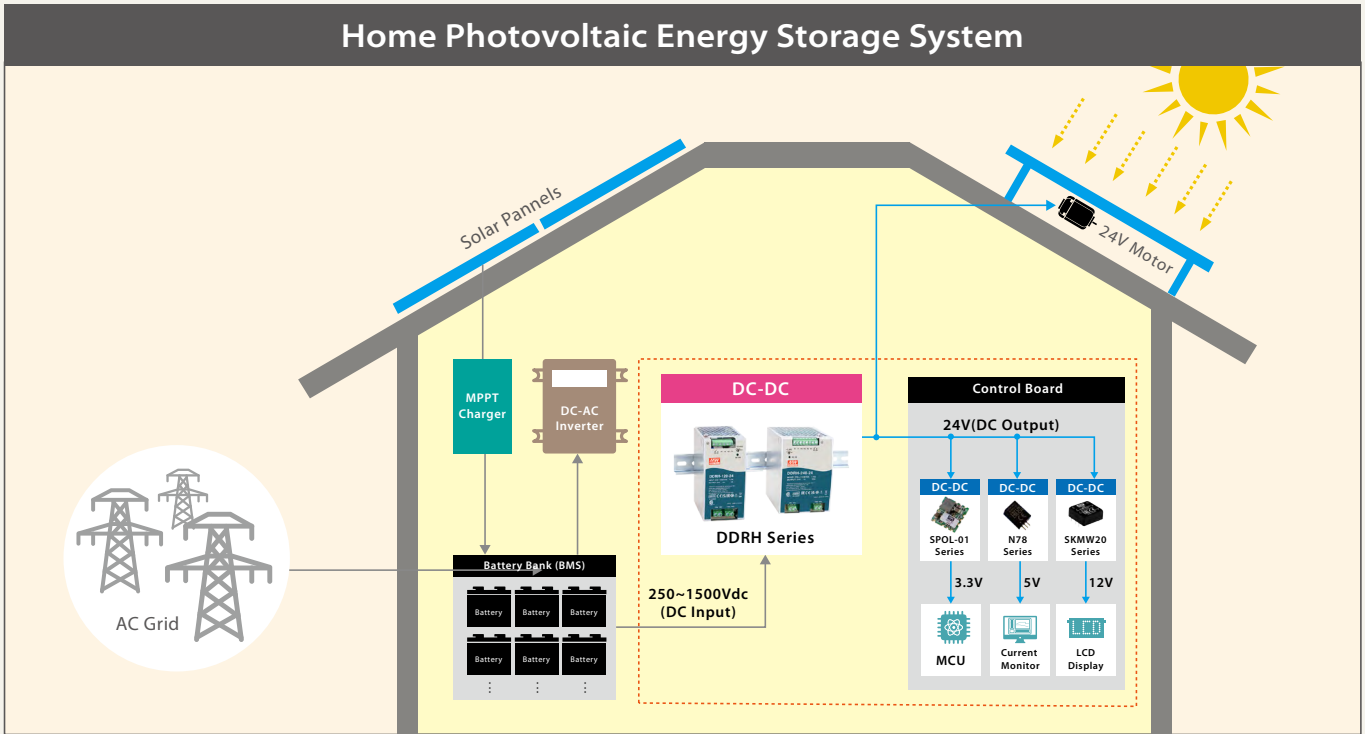
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In response to the growing demand for high-to-low voltage DC-DC converters driven by net-zero carbon goals, especially in photovoltaic, energy storage, and wind energy sectors, MEAN WELL offers the DDRH and RSDH series (15-300W) with multiple installation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

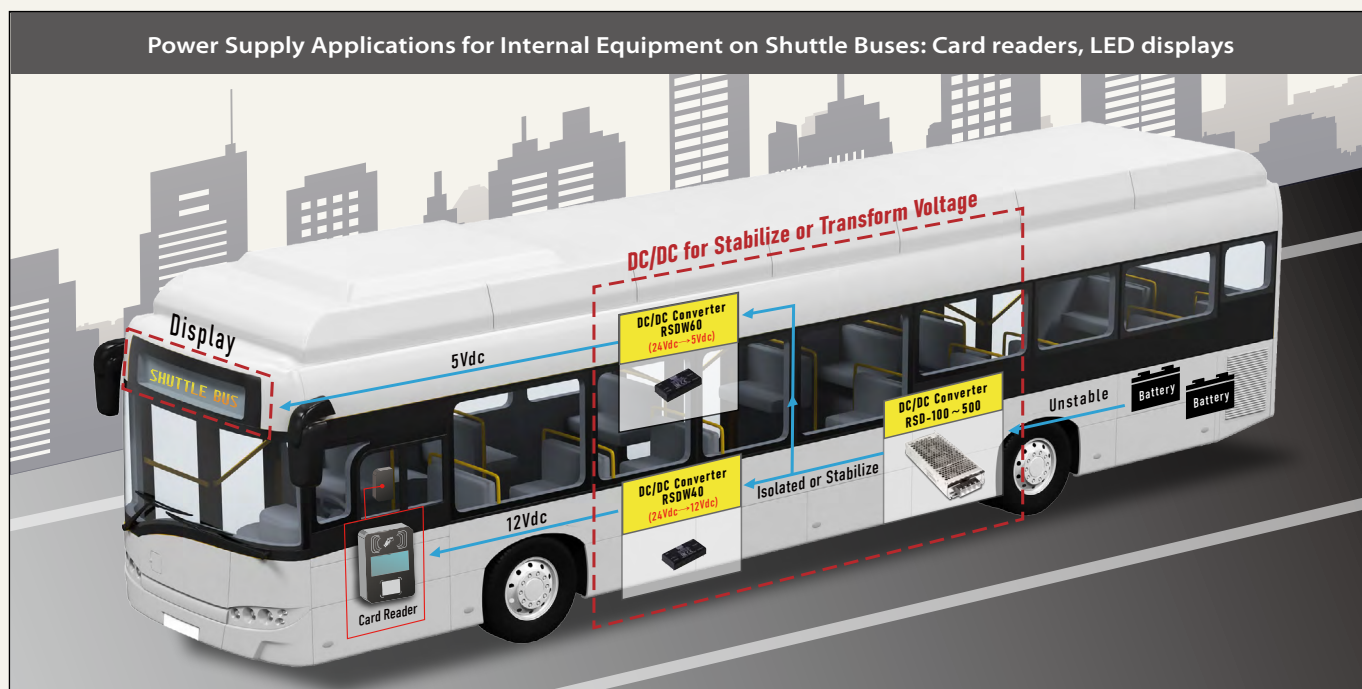
UL1741, EN62109-1

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		5V, 12V, 24V, 48V	57 x 93.5 x 105	
DDRH-60		60W	250~1500V	12V, 24V, 32V, 48V	63 x 125.2 x 115	
DDRH-120		120W		12V, 24V, 32V, 48V	85.5 x 125.2 x 129.2	
DDRH-240		240W		12V, 24V, 32V, 48V	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		12V, 24V, 32V, 48V	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)

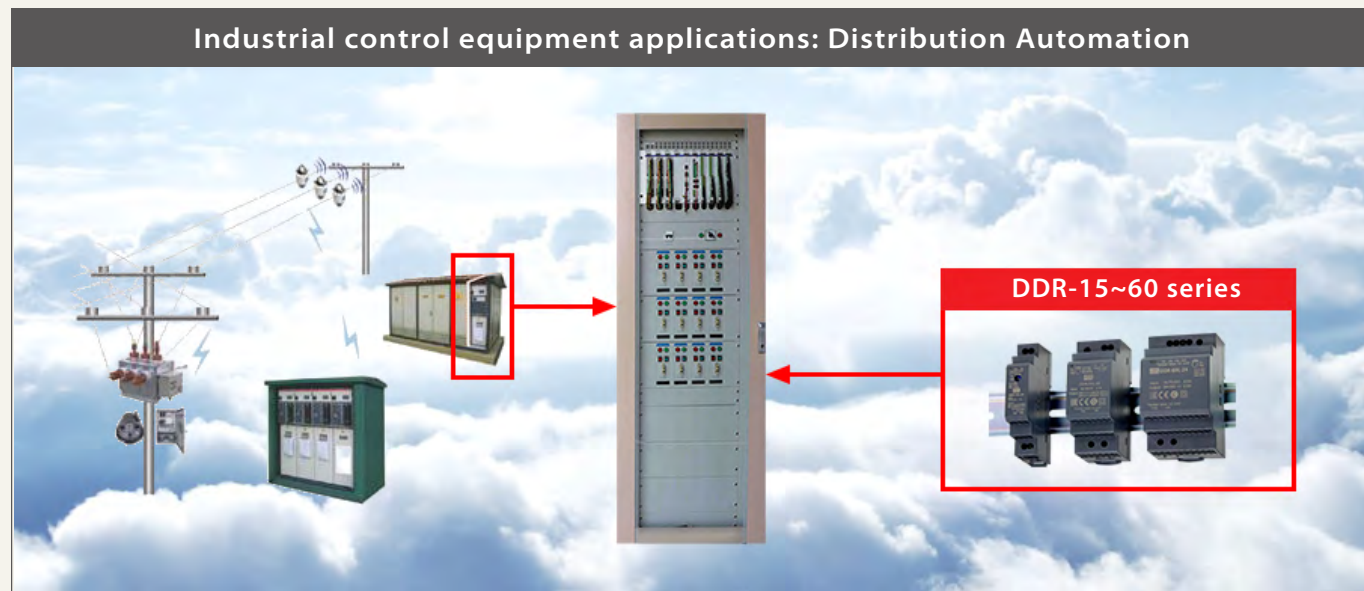
## ■ Compliant Certification

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	QR
RDDW08				$\pm 5V, \pm 12V, \pm 15V$		
RSDW10		10W	110V (43~160V)	3.3V, 5V, 12V, 15V	31.8 x 20.3 x 12.7	
RDDW10				$\pm 5V, \pm 12V, \pm 15V$		
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				$\pm 5V, \pm 12V, \pm 15V$		
RSDW20UW				5V, 12V, 15V		
RDDW20UW				$\pm 12V, \pm 15V, \pm 24V$		
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				$\pm 12V, \pm 15V$		
RSDW60	3.3V, 5V, 12V, 15V, 24V, 48V					
RDDW60	60W		$\pm 12V, \pm 15V$			
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	
RQB150W12					150W	
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	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.



## 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	199 x 98 x 38		
SD-150		150W	12V, 24V	199 x 110 x 50		
SD-200		200W	19~36V, 36~72V, 72~144V	5V, 12V, 24V, 48V	215 x 115 x 50	
SD-350		350W				
SD-500		500W		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	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						
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	6~36V, 20~36V	3.3V, 9V, ±5V, ±12V, ±15V	10.5 x 7.5 x 16				
N78-2	2A			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				
SMU02	2W			11.6 x 7.4 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	SIP	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	
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		9~18V, 18~36V, 36~72V	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	9~75V	3.3V, 5V, 9V, 12V, 15V, 24V	
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	20W		9~36V, 18~75V	3.3V, 5V, 12V, 15V	25.4 x 25.4 x 10.2		
DKMW20				±12V, ±15V			
SKMW30	30W		9~36V, 18~75V	3.3V, 5V, 12V, 15V	25.4 x 25.4 x 10.5		
DKMW30				±12V, ±15V			
SKMW40	40W		9~36V, 18~75V	3.3V, 5V, 12V, 15V, 24V	25.4 x 25.4 x 10.5		
DKMW40				±12V, ±15V			
SLW05		5W	9~18V, 18~36V, 36~72V	5V, 9V, 12V, 15V	50.8 x 25.4 x 11.27		
DLW05				±5V, ±12V, ±15V			
SKE10		10W	9~18V, 18~36V, 36~72V	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 11.27		
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				5V, 12V, 15V			
DKM30-N		30W	9~36V, 18~75V	±12V, ±15V	50.8 x 25.4 x 11.2		
SKM50		50W	18~36V, 36~75V	5V, 12V, 15V	50.8 x 25.4 x 13.7		
SKE15			15W	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	40W		9.2~18V, 18~36V, 36~75V	5V, ±12V, 5V, ±15V	50.8 x 50.8 x 11		
SKA40				5V, 12V, 15V			
SKA60	60W	9.2~18V, 18~36V, 36~75V	5V, 12V, 15V	50.8 x 50.8 x 11			
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 <math> < 2 \sim 5\mu A </math> (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	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	
MDD02-N							
MDS03		3W	12V, 24V(9~36V) 24V, 28V(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)	5V, 12V, 15V, 24V	4KVdc	50.8 x 25.4 x 12	
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							

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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	