



DC-DC

converters



Current Automation






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Single Output Module Type

0.5~1Watt

Series	Picture	Watt	Input (Vdc)	Output Rated Current (mA)				Dimensions
				5V	9V	12V	15V	
SRS		0.5	4.5~5.5	100	56	42	34	0.89"x0.39"x0.33"
			10.8~13.2					
			21.6~26.4					
			43.2~52.8					
SUS01		1	4.5~5.5	200	111	84	67	0.89"x0.39"x0.33"
			10.8~13.2					
			21.6~26.4					
			43.2~52.8					
SBT01		1	4.5~5.5	200	111	84	67	0.50"x0.30"x0.24"
			10.8~13.2					
SFT01		1	4.5~5.5	200	111	84	67	0.60"x0.30"x0.24"
			10.8~13.2					
SPR01		1	4.5~5.5	200	100	84	67	0.77"x0.28"x0.40"
			10.8~13.2					
			21.6~26.4					
			43.2~52.8					

SBT01, SFT01 and DET01 Series

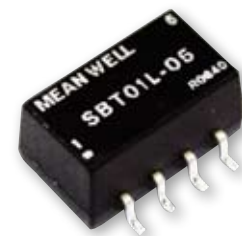
1W DC-DC unregulated converters

Description

MEAN WELL introduced several SMD packaged DC/DC converter series: The SBT01 / SFT01 / DET01 Series for the growing demand of miniature size and for the ease of SMT production facilities. With industry standard pin assignment, these small gadgets possess high I/O isolation, low ripple noise, miniature size, and low costs, which are very suitable for application in automation and telecom fields. The SMD package is good for the highly automated production lines that the small DC/DC converter can be just mounted on the main PCB to save your manufacturing costs and time.

Features

- 1000VDC I/O Isolation(SBT- Series)
- 3000VDC I/O Isolation(SFT; DET- Series)
- Internal SMD Technology
- Protection: Short circuit
- Non-conductive plastic case
- SMD Package Style
- 100% Full load burn-in test
- Approvals: UL/CUL



SMD Package Style

SPU02 Series

2W DC-DC unregulated converters

Description

MEAN WELL introduced the new 2W unregulated single output DC/DC converter – SPU02 series – for the growing market demands of low cost and miniature size. With SIP packaging in fully non-conductive plastic case, these 2W gadgets maintain the same size as original 1W products (0.77" * 0.28" * 0.4") and can still work at full load under 60°C of ambient temperature. SPU02 also design to comply with the standard pin assignment in the market that offers a better choice for users who has cost and space concerns. Other standard features include 3000VDC high input / output isolation, low ripple noise, low cost, CE / FCC compliance, and short circuit protection. Suitable applications are industrial control, telecom / datacom, and distributed power architecture.

Features

- 3000VDC I/O Isolation
- Internal SMD Technology
- Built-in EMI Filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Single in line package
- 100% Full load burn-in test
- Approvals: UL/CUL



Single Output Module Type

2~30Watt

Series	Picture	Watt	Input (Vdc)	Output Rated Current (mA)						Dimensions
				3V	5V	9V	12V	15V	24V	
SPU02		2	4.5~5.5		400		167	133	0.77"x0.28"x0.40"	
			10.8~13.2							
			21.6~26.4							
SPA02		2	4.5~9		400		150	120	0.86"x0.44"x0.36"	
			9~18							
			18~36							
			36~72							
SPB03		3	4.5~9		600		250	200	0.86"x0.44"x0.36"	
			9~18							
			18~36							
			36~72							
SCW03		3	9~18		600		250	200	0.80"x1.25"x0.15"	
			18~36							
			36~72							
SCW05		5	9~18		1000	556	470	400	1.25" x 0.8" x 0.48"	
			18~36							
			36~72							
SLW05		5	9~18		1000	556	417	333	2" x 1" x 0.44"	
			18~36							
			36~72							
SCW08		8	9~18		1600		670	533	1.25" x 0.8" x 0.48"	
			18~36							
			36~72							
SCW12		12	9~18		2400		1000	800	1.25" x 0.8" x 0.48"	
			18~36							
			36~72							
SKE10		10	9~18		200		840	666	420	2" x 1" x 0.44"
			18~36							
			36~72							
SKA15		15	9~18	3000	3000		1250	1000	2" x 1" x 0.44"	
			18~36							
			36~72							
SKE15		15	9~18		3000		1250	1000	625	2" x 2" x 0.43"
			18~36							
			36~72							
SDM30		30	9~18	5000	5000		2100	1700	2" x 2" x 0.63"	
			18~36							
			36~72							

SPA02 & SPB03 Series

Features

- 2:1 Standard wide input range
- 4:1 Wide input range (optional)



2 & 3W DC-DC regulated converters

Description

MEAN WELL introduced the 2W & 3W miniature regulated single output DC/DC converters – SPA02 / SPB03 series – for the growing demands of miniature size applications. With single-in-line packaging, these 2W /3W converters use identical plastic case (0.86" * 0.36" * 0.44") which is less than 1/3 in volume compare to our existing 3W products ~ SCW03. Although with that small size, SPA02 & SPB03 can work at full load up to 70°C of the ambient temperature. Under 85°C of extreme high temperature, they can still provide 50% output power. SPA02 and SPB03 series are designed to comply with the standard pin assignment in the market that offers a better choice for users who has cost and space concerns. Standard features include 2:1 wide input range, 1000VDC input / output isolation, low ripple noise, low cost, CE / FCC compliance, and short circuit/overload protection. Besides, fully encapsulated packaging can help them withstand the influence of dust and moisture comes from all kinds of harsh environment. Suitable applications include industrial control, telecom/ datacom, and distributed power architecture related installations.

Dual Output Module Type

1~30Watt

Series	Picture	Watt	Input (Vdc)	Output Rated Current (mA)						Dimensions
				3V	5V	9V	12V	15V	24V	
DET01		1	4.5~5.5		±100	±56	±42	±33	0.6" x 0.3" x 0.24"	
			10.8~13.2							
DCW03		3	9~18		±300		±125	±100	1.25" x 0.8" x 0.48"	
			18~36							
			36~72							
DCW05		5	9~18		±500		±230	±190	1.25" x 0.8" x 0.48"	
			18~36							
			36~72							
DLW05		5	9~18		±500		±208	±167	2" x 1" x 0.44"	
			18~36							
			36~72							
DCW08		6	9~18		±800		±335	±267	1.25" x 0.8" x 0.48"	
			18~36							
			36~72							
DCW12		12	9~18		±1200		±500	±400	1.25" x 0.8" x 0.48"	
			18~36							
			36~72							
DKE10		10	9~18		±1000		±420	±333	2" x 1" x 0.44"	
			18~36							
			36~72							
DKA15		15	9~18		±1500		±625	±500	2" x 1" x 0.44"	
			18~36							
			36~72							
DKE15		15	9~18		±1500		±625	±500	±313	2" x 2" x 0.43"
			18~36							
			36~72							
DKA30		30	9~18		±2500		±1250	±1000	2" x 2" x 0.82"	
			18~36							
			36~72							

SCW08 / DCW08 Series

8W DC-DC regulated converters

Description

MEAN WELL introduced the 8W regulated single/dual output DC/DC converter – SCW08 / DCW08 series – for the growing demands of low cost and miniature size applications. With DIP packaging, these 8W products maintain the same size as original 3W products (1.25" * 0.8" * 0.48") and can still work at full load under 60°C ambient temperature.

The SCW08 and DCW08 series are designed to comply with the standard pin assignment in the market that offers a better choice for users who has cost and space concerns. Standard features include 2:1 wide input range, 1000VDC input / output isolation, low ripple noise, low cost, CE / FCC compliance, and short circuit/overload protection.

The five-sided shield metal case can significantly enhance the EMC characteristics that make the SCW08 suitable for industrial control, telecom/datacom, and distributed power architecture related applications.

Features

- 2:1 wide input range
- 1000VDC I/O isolation
- Input PI network filter
- Protection : Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- Approvals : CE / FCC
- Dimension: 1.25" * 0.8" * 0.48"



SCW12 / DCW12 Series

12W DC-DC regulated converters

Description

MEAN WELL introduced the 12W regulated single/dual output DC/DC converter – SCW12 / DCW12 series – for the growing demands of low cost and miniature size applications. With DIP packaging, these 12W products maintain the same size as original 3W products (1.25" * 0.8" * 0.48") which increase the power density by 4 times and can still work at full load under 60°C of ambient temperature. In this popular industrial form factor, right now MEAN WELL can offer 3W, 5W, 8W, and 12W products that provide multiple choices for space constraint applications.

SCW12 and DCW12 series are designed to comply with the standard pin assignment in the market. Other standard features include 2:1 wide input range, 1500VDC input / output isolation, remote ON/OFF control, low ripple noise, low cost, CE / FCC compliance, and short circuit/overload protection. Besides, the five-sided shield metal case can significantly enhance their EMC characteristics that make them suitable for industrial control, telecom/datacom, and distributed power architecture related applications.



Features

- 2:1 wide input range
- 1500VDC I/O isolation
- Built in EMI filter
- Built in remote ON/OFF control
- Protection : Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost, high reliability
- Approvals : CE / FCC
- Dimension: 1.25" * 0.8" * 0.48"






Tripple Output Module Type

30Watt

Series	Picture	Watt	Input (Vdc)					Dimensions
				5V	9V	12V	15V	
TKA30-B		25	9~18	3500		±310		2" x 2" x 0.82"
			18~36					
			36~72					
TKA30-C		25	9~18	3500			±250	2" x 2" x 0.82"
			18~36					
			36~72					



Single Onboard Type

5~15Watt

Series	Picture	Watt	Input (Vdc)	Output Rated Current (mA)					Dimensions
				3V	5V	9V	12V	15V	
NSD05		5	9.2~36	1200	1000		420	330	1.6" x 1" x 0.327"
			18~72						
NSD10-S		10	9.2~36	2500	2000	1100	830	670	2" x 1" x 0.394"
			22~72						
NSD15-S		15	9.2~36	3750	3000		1250	1000	2" x 1.5" x 0.387"
			22~72						

Double Onboard Type

10~15Watt

Series	Picture	Watt	Input (Vdc)	Output Rated Current (mA)				Dimensions
				5V	9V	12V	15V	
NSD10-D		10	9.8~36	±50~1000		±20~420	±16~330	2" x 1" x 0.394"
			22~72					
NSD15-D		15	9.4~36	±70~1500		±30~620	±20~500	2" x 1.5" x 0.387"
			18~72					

NSD05 Series

5W DC-DC on-board regulated converters

Description

MEAN WELL released the new NSD05 series of 5W on-board type DC/DC converter to further expand the DC/DC product lines in the low wattage range. Along with the NSD-10 (10W) and NSD-15 (15W) series, we offer more complete lines that target at the emerging trend of distributed power applications. Featuring 4:1 wide DC input range and 1500VDC input/output isolation, NSD05 series have two kinds of DC input level – 12V (9.2~36VDC), 48V (18~72VDC), and four kinds of DC output level – 3.3V, 5V, 12V, and 15V for end users to select from. Other standard functions include remote ON/OFF control, short circuit, over load, and over voltage protections.

Design of NSD05 refers to global certificates per IEC60950-1 and CE, and the CB test report issued by TUV is also available for any further certifying application. NSD05 can be operated under free air convection between the -25~70°C ambient temperature without adding any heat sink, and hence we can keep the cost lower than other 5W encapsulated type models in the market. These economical gadgets are suitable for applications using distributed power architecture that transfer the high DC bus voltage to lower DC working voltage at the location of the load.

Features

- 4:1 wide input range
- 1500VDC input/output isolation
- Short circuit, overload, over-voltage protections
- Built-in EMI filter
- Built-in remote ON/OFF control function
- Approval: CB/CE
- 100% full load burn-in test
- Low cost
- Dimension: 40.6mm*25.4mm*7.9mm



NSD10 & NSD15 Series

10 & 15W DC-DC on-board regulated converters

Description

MEAN WELL launched the NSD-10 (10W) and NSD-15 (15W) series on-board type DC/DC converter to expand the DC/DC product line in the low wattage range for the emerging trend of distributed power applications. As the replacement model of previous ASD-10H & ASD-15H, the new NSD series maintain the same dimension and pin assignment, but improves the performance and reduces the costs that offer users new choices of much higher value.

Featuring 4:1 wide DC input range and 1500VDC input/output isolation, NSD10/15 series both have two kinds of DC input level – 12V, 48V, and eight kinds of DC output level – 3.3V, 5V, 9V, 12V, 15V, $\pm 5V$, $\pm 12V$, and $\pm 15V$ for end users to select from. (NSD15 doesn't have the 9V model!)

Standard functions include remote ON/OFF control, short circuit, over load, and over voltage protections. The 15W models also possess output voltage trimming function that give users more flexibility to the system design. These economical gadgets are suitable for applications using distributed power architecture that transfer the high DC bus voltage to lower DC working voltage at the location of the load. Following are the features and main specifications of the NSD10 and NSD15 series and please visit our website for more detail information: NSD10-S, NSD10-D, NSD15-S, NSD15-D



Features

- 4:1 wide input range
- 1500VDC input/output isolation
- Short circuit, overload, over-voltage protections
- Built-in EMI filter
- Built-in remote ON/OFF control function
- Approval: CB/CE
- 100% full load burn-in test
- Low cost
- Dimension: 40.6mm*25.4mm*7.9mm





Double Onboard Type

5~15Watt

Series	Picture	Watt	Input (Vdc)	Output Rated Current (mA)			Dimensions
				5V	12V	15V	
NSD10-D		10	9.8~36	$\pm 50 \sim 1000$	$\pm 20 \sim 420$	$\pm 16 \sim 330$	2" x 1" x 0.394"
			22~72				
NSD15-D		15	9.4~36	$\pm 70 \sim 1500$	$\pm 30 \sim 620$	$\pm 20 \sim 500$	2" x 1.5" x 0.387"
			18~72				

Open Frame Type

5~15Watt

Series	Picture	Watt	Input (Vdc)	Output Rated Current (mA)			Dimensions
				5V	12V	24V	
PSD-05		5	36~72	1	0.45	0.22	75 x 40 x 20
PSD-15		15	9.2~18	3	1.25	0.6	94 x 49 x 25
			18~36				
			36~72				

PSD05 Series

5W & 15W DC-DC open frame regulated converters

Description

MEAN WELL debuted a new product style to our DC/DC product line - PSD-05 and PSD-15 series open frame switching power supply. The new 5W and 15W PCB type DC/DC converter comply with LVD and EMC directives and bear the CE mark. Featuring 2:1 wide DC input range and 2000VDC input/output isolation, PSD-05 and PSD-15 securely transfer a wide range of DC input voltage rating into a stable DC output. With short circuit, overload, over-voltage, and over temperature (5W models) protections, these small gadgets are ideally suited for a wide variety of fields from general electrical engineering usage, automotive, to battery back-up applications. Following are the features and main specifications and please visit our website for more detail information: PSD-05, PSD-15.

Consisting with the high quality standard of our open frame product series, the component selection, electrical performance verification and quality control are carefully executed during the design and manufacturing stage. Similar to other Mean Well DC/DC converter products, 1-year warranty is provided for these two series.

Features

- 2:1 wide input range
- 2000VDC I/O isolation
- Short circuit, overload, over-voltage, over temperature protection (5W models only)
- Cooling by free air convection
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost, high reliability
- Dimension (W*H*D):
75mm*40mm*20mm(5W),
94mm*49mm*25mm(15W)



SD-15 Series

15W DC-DC enclosed type regulated converters

MEAN WELL introduced a new member to our enclosed type DC/DC product line (SD series) - SD-15 series. The new 15W DC/DC converters comply with LVD and EMC directives and bear the CE mark. Featuring 2:1 wide DC input range and 3000VDC input/output isolation, SD-15 securely transfer a wide range of DC input voltage rating into a stable DC output. The 79*51*28 mm miniature design also gives end users a huge advantage to save the installation space. With the standard function of short circuit, overload, and over-voltage protections, SD-15 is ideally suited for a wide variety of fields from general electrical engineering usage, automotive, security, to all kinds of battery back-up applications.



Enclosed Type

15~1000Watt

Series	Picture	Watt	Input (Vdc)	Output Rated Current (mA)				Dimensions
				5V	12V	24V	48V	
SD-15		15	9.2~18	3	1.25	0.625		79 x 51 x 28
			18~36					
			36~72					
SD-25		25	9.2~18	5	2.1	1.1		99 x 97 x 36
			18~36					
			36~72					
SD-50		50	9.2~18	10	4.2	2.1		159 x 97 x 38
			18~36					
			36~72					
SD-100		100	19~36	20	8.5	4.2		199 x 98 x 38
			36~72					
			72~144					
SD-150		150	19~36		12.5	6.3		199 x 110 x 50
			36~72					
			72~144					
SD-200		200	19~36	40	16.7	8.4	4.2	215 x 115 x 50
			36~72					
			72~144					
SD-350		350	19~36	60	27.5	14.6	7.3	215 x 115 x 50
			36~72					
			72~144					
SD-500		500	19~72		40	21	10.5	215 x 115 x 50
			71~144					
SD-1000		1000	19~72		60	40	21	295 x 127 x 41
			72~144					

SD-200 & 350 Series

200W & 300W DC-DC enclosed type regulated converters

MEAN WELL launched the SD-200 (200W) and SD-350 (350W) series enclosed type DC/DC converter to expand the SD product lines to higher wattage range for the growing demand of middle wattage DC/DC applications. Featuring 2:1 wide DC input range and 1500VDC input/output isolation, SD-200/350 series both have three kinds of DC input level – 24V, 48V, 96V and four kinds of DC output level – 5V, 12V, 24V, 48V for end users to select from. With built-in short circuit, over load, over voltage and over temperature protections, they are suitable for general electrical engineering usage, automotive, and battery back-up applications.



Features

- 2:1 wide input range
- 1500VDC input/output isolation
- Short circuit, overload, over-voltage, over-temperature protection
- 200W cooling by free air convection;
- 350W cooling by built-in DC fan

SD-500 Series

500W DC-DC enclosed type regulated converters

Description

MEAN WELL introduced the new SD-500 series (500W) enclosed type DC/DC converter to expand the SD product lines to higher wattage range for the growing demand of high wattage DC/DC applications. After this, our DC/DC enclosed type product line would be complete and become one of the few manufacturers that can provide from 15W, 25W, 50W, 100W, 150W, 200W, 350W, 500W, to 1000W. The whole product line will consist of 9 families and totally 78 models. Accompany with our existing DC/DC module type series, on-board type (NSD series), and PCB type (PSD series) products, MEAN WELL can offer the most diversified DC/DC product portfolio in the market!

Features

- 4:1 & 2:1 wide input range
- 2000VAC input/output isolation
- Short circuit, overload, over-voltage, over-temperature, input polarity protection
- Forced air cooling by built-in DC fan with fan speed control function
- DC input active surge current limiting
- Output OK signal
- Remote ON/OFF control
- Remote sense function
- Output OK signal
- Dimension: 215mm*115mm*50mm (L*W*H)



SD-1000 Series

1000W DC-DC enclosed type regulated converters

Description

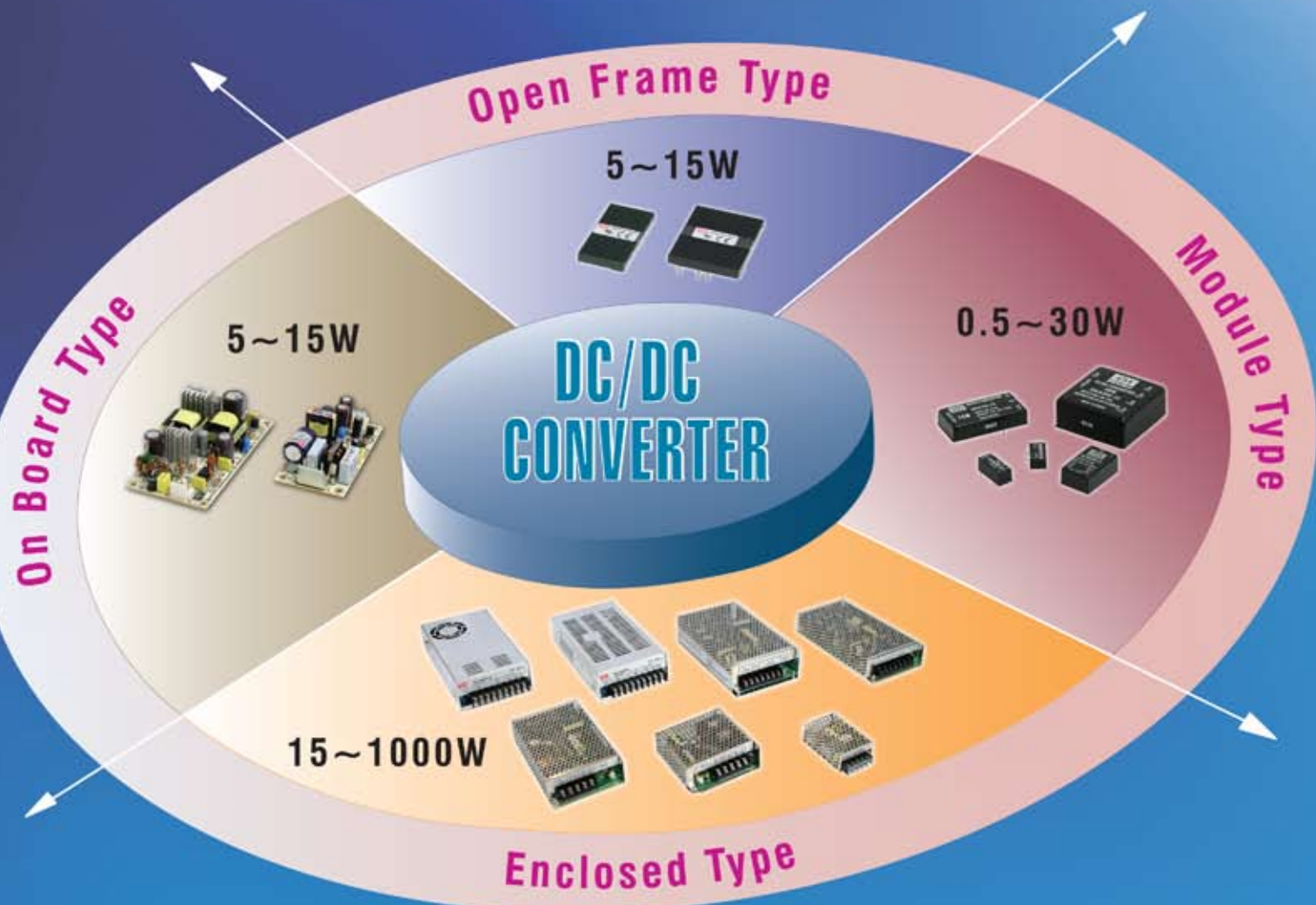
MEAN WELL launches the SD-1000 series (1000W) enclosed type DC/DC converter that expands our SD product lines to higher wattage range for the growing demand of high wattage DC/DC applications. Featuring 4:1~2:1 wide DC input range and 2000VAC input/output isolation, SD-1000 series have two kinds of DC input level – 19~72V(L type), 72~144V(H type) and three kinds of DC output level – 12V, 24V, 48V for end users to select from. With built-in short circuit, over load, over voltage and over temperature protections, these 1U low profile converters are suitable for general electrical engineering usage, automotive, and battery back-up applications which have space constraint and required a compact DC/DC power solution. Other standard function includes 12V/0.25A auxiliary output, output OK signal, remote ON/OFF control, and remote sense function that can fit in with many possible special end applications.

Features

- 1U low profile 41mm
- 4:1 & 2:1 wide input range
- 2000VAC input/output isolation
- Short circuit, overload, over-voltage, over-temperature protection
- High power density 10.7W/in3
- Output OK signal
- Remote ON/OFF control
- Remote sense function
- 12V/0.25A auxiliary output
- Dimension: 295mm*127mm*41mm (L*W*H)



Product Range



Advantages of Mean Well Product

- Professional design, stable quality, low cost, prompt service
- Complete AC-DC product lines and DC-DC products, provide various selection for clients
- Unique and complete 15~1000W enclosed DC-DC converters
- High flexibility of modification to meet customers' request
- Continually launching new products



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