



Installation Manual

- **Type** : DC-DC converter (Families : PSD, SD, RSD)

- **Introduction**

A DC-DC converter is a device used to convert a DC source from one voltage level to another. Mean Well's DC-DC converters equipped with internal EMI filter stage that possess the required EMC performance.

- **Installation**

- (1) Before commencing any installation or maintenance work, please disconnect your system from the utility. Ensure that it cannot be re-connected inadvertently!
- (2) For PCB type, at least 5mm insulation distance around the unit should be kept.
- (3) Allow good ventilation for the unit in use to prevent it from overheating. Also, a 10-15 cm clearance must be kept when the adjacent device is a heat source.
- (4) Mounting orientations other than standard orientation or operate under high ambient temperature may increase the internal component temperature and will require a de-rating in output current. Please refer to the specification sheets to receive the optimum mounting position and information about the de-rating curve.
- (5) Input and Output terminal

Series	Terminal Screw	Screw Size	Suggested Torque
SD-15		M3.0	9.2kgf-cm(8lb-inch)
SD-25/50/100/150/200/350		M3.5	13.8kgf-cm(12lb-inch)
SD-500		M4.0	18.4kgf-cm(16lb-inch)

Series	Terminal Screw		Input		Output	
	Screw Size	Suggested Torque	Screw Size	Suggested Torque		
RSD-30/60/100	M3.5	13.8kgf-cm(12lb-inch)	M3.5	13.8kgf-cm(12lb-inch)		
RSD-150/200	M3.5	13.8kgf-cm(12lb-inch)	M4.0	18.4kgf-cm(16lb-inch)		
RSD-300	M4.0	18.4kgf-cm(16lb-inch)	M4.0	18.4kgf-cm(16lb-inch)		
RSD-500	#6	8kgf-cm(6.9lb-inch)	#6	8kgf-cm(6.9lb-inch)		
SD-1000	M4.0	18.4kgf-cm(16lb-inch)	M5.0	10kgf-cm(8.7lb-inch)		

- (6) Torque can be various due to different material, please refer to the following chart.

A Recommend torque for aluminum :

Size of screw (Imperial units)	Recommend torque (kgf-cm)
3-56	2.3±20%
4-40	3.0±20%
4-48	3.3±20%
5-40	4.5±20%
5-44	4.7±20%
6-32	5.6±20%
6-40	6.3±20%
8-32	10.4±20%
8-36	10.8±20%

Size of screw (Metric Units)	Recommend torque (kgf-cm)
M2.5	2.2±20%
M3	4.1±20%
M3.5	6.5±20%
M4	9.7±20%
M5	19.5±10%
M6	33.1±10%
M7	55.3±10%
M8	80.6±10%

B Recommend torque for iron :

Size of screw (Imperial units)	Recommend torque (kgf-cm)
3-56	5.0±20%
4-40	6.9±20%
4-48	7.0±20%
5-40	9.4±20%
5-44	9.9±20%
6-32	12.0±20%
6-40	13.4±20%
8-32	21.8±20%
8-36	23.0±20%

Size of screw (Metric Units)	Recommend torque (kgf-cm)
M2.5	4.6±20%
M3	8.8±20%
M3.5	13.7±20%
M4	20.4±20%
M5	41.1±10%
M6	69.1±10%
M7	117.5±10%
M8	169.4±10%

If above mentioned is not enough due to special application, Nylok Blue Patch screw is recommend, and extra torque can be added if needed.

(7) Recommended input/output wires are shown as below.

AWG	18	16	14	12	10	8
Rated Current of Equipment (Amp)	6A	6-10A	10-16A	16-25A	25-32A	32-40A
Cross-section of Lead(mm ²)	0.75	1.00	1.5	2.5	4	6

Note: Current each wire carries should be de-rated to 80% of the current suggested above when using 5 or more wires connected to the unit.

- (8) For PCB type, compatible mating housing please refers to the specifications
- (9) For enclosed type, make sure that all strands of each stranded wire enter the terminal connection and the screw terminals are securely fixed to prevent poor contact.



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Declaration of China RoHS Conformity

In order to reduce the impacts on the environment and take the more responsibility for protecting the earth, MEAN WELL is confirming and announcing the conformity to China RoHS, an Administrative Measures for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products.

Environment Friendly Use Period Label

	<p>Observing SJT 11364-2014, Marking for the Restricted Use of Hazardous Substances in Electronic and Electrical Products</p> <p>Observing SJ/Z 11388-2009, General Guidelines of Environment-friendly Use Period of Electronic Information Products Appendix B, adopting table look-up to verify the Environment Friendly Use Period</p>
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Names and Contents of Hazardous Substances Lists

Part Name	Hazardous Substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr ⁶⁺)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
PCB and its components	X	O	X	O	O	O
Metal structure parts	X	O	O	O	O	O
Plastic structure parts	O	O	O	O	O	O
Accessories	O	O	O	O	O	O
Cables	X	O	O	O	O	O

O: The concentration of the hazardous substances within the homogeneous material of that product is less than the concentration limits set by GB/T 26572-2011.
X: The concentration of the hazardous substances within the homogeneous material of that product is over the concentration limits set by GB/T 26572-2011; however, it follows the standard advised by 2011/65/EU.



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Declaration of China VOC Conformity

In order to reduce the impacts on the environment and take the more responsibility for protecting the earth, MEAN WELL is confirming and announcing the conformity to China's Standardization Administration Releases VOC Standards

Standard No.	Name of the Standard
GB 30981-2020	Limit of harmful substances of industrial protective coatings
GB 33372-2020	Limits for volatile organic compounds content in adhesive
GB 38507-2020	Limits for volatile organic compounds (VOCs) In printing ink
GB 38508-2020	Limits for volatile organic compounds content in cleaning agents

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