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Find the *Mean Well SD-50B-12* at our website: ***Click HERE***

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）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.						

  （6）For PCB type, compatible mating housing please refers to the specifications
  （7）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.
  （8）For other information about the products, please refer to www.meanwell.com for details.

- **Warning / Caution !!**

  （1）Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do not try to fix the converter by yourself!
  （2）Risk of irreparable damage. Do not reverse polarity, both input and output.
  （3）Please do not install converters in places with high moisture or near the water.
  （4）Please do not install converters in places with high ambient temperature or near fire source. Please refer to the specifications about the maximum ambient temperature limitations.
  （5）Output current and output wattage must not exceed the rated values on specifications.
  （6）The ground (FG) must be connected to earth ground.
  （7）For system considerations, PCB and enclosed type converters may require an additional inrush current limiting circuit to suppress high inrush current surges. If you are uncertain about that circuit, contact Mean Well.
  （8）All of Mean Well's converters are designed in accordance with EMC regulations and the related test reports are available by request. Since they are belong to component power supplies and will be installed inside system enclosure, when they are integrated into a system, the EMC characteristics of the end system must be re-verified again.

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Installation Manual

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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

	Observing SJT 11364-2014, Marking for the Restricted Use of Hazardous Substances in Electronic and Electrical Products 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

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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