Features:

1. Extra wide input voltage range (300-1500VDC)
2. Size: 230*127*40.5mm
3. Protection type: over load/short circuit/over voltage
4. Operating temperature range -40℃ to +70℃
5. 3000V isolation voltage
6. Support PS-ON function optional
7. Designed for PV power generation, wind power generation and other supporting equipment
8. 100% high temperature aging and testing
9. 3 years warranty

RoHS CE 3 years Warranty

Selection Guide

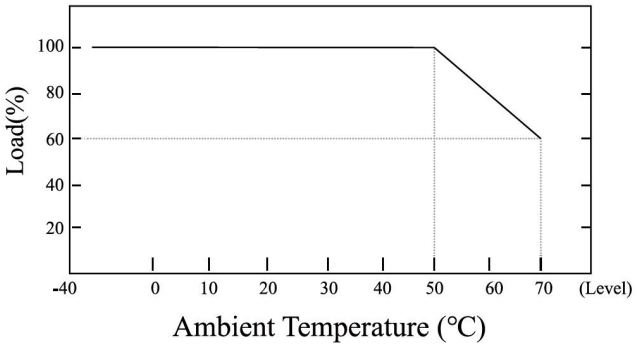
Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Voltage Adjustable Range (V)	Output Current (A)	Ripple & Noise (mVp-p)	Efficiency (%)
PV-DM350-900S24	300-1500 VDC	350	24	23-27	14.6	200	88
PV-DM350-900S27		350	27	24.4-32.8	12.9	250	89
PV-DM350-900S36		350	36	34-40	9.7	300	89
PV-DM350-900S48		350	48	46-52	7.3	300	91

Specifications

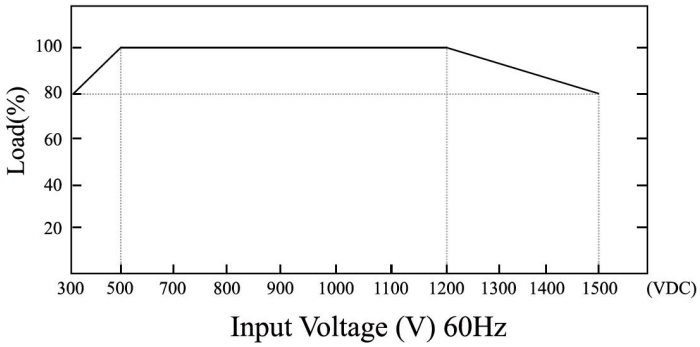
OUTPUT	Voltage Tolerance	±1.0%				
	Line Regulation	±1.0%				
	Load Regulation	±1.5%				
	Setup Time (Max.)	3s				
INPUT	Voltage Range	300-1500VDC				
	Nominal Voltage	900VDC				
	Current (Typ.)	0.7A/600VDC				
	Inrush Current (Typ.)	Cold boot 90A/600VDC 160A/1000VDC				
	External Fuse Recommended	6A/1500VDC				
	Leakage Current (Typ.)	<1mA/600VDC/50Hz				
PROTECTION	Over Load	≥110% load, self-recovery after troubleshooting				
	Short Circuit	Hiccup mode, self-recovery after troubleshooting				
	Over Voltage	Voltage	24VDC	27VDC	36VDC	48VDC
		Range	≤30VDC	≤36VDC	≤48VDC	≤60VDC
ENVIRONMENT	Working Temp.	-40°C to +70°C (Refer to "Derating curve")				
	Working Humidity	85%RH max				
	Storage Temp., Humidity	-40°C to +105°C, 10-95%RH				
	Temp. Coefficient	0.03%/ (0-50°C)				
	Vibration	10-500Hz, 2G, 10min./1cycle, 60min.each along X, Y, Z axes				
SAFETY & EMC (NOTE 3.)	Safety Standards	UL1012, EN62368, UL62368				
	Isolation Voltage	I/P-O/P: 3000VAC I/P-FG: 1500VAC O/P-FG: 500VAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: >100M Ohms/500VDC 25°C 70% RH				
	EMC Emission & Immunity	EN55011, EN55032 (CISPR32)				
	ESD	IEC/EN 61000-4-2 level 4 Contact ±8kV/Air ±15kV				
	RF	IEC/EN 61000-4-3				
	EFT	IEC/EN 61000-4-4 level 4 2kV				
	Surge	IEC/EN 61000-4-5 level 4 1kV/2kV				
OTHERS	MTBF	1000K hrs min. MIL-HDBK-217F (25°C)				
	Dimension	230*127*40.5mm (L*W*H)				
NOTE	1. All parameters not specially mentioned, are measured when TA=25°C, humidity<75%, input nominal voltage and output rated load.					
	2. Measurement method of ripple & noise: Parallel line test method shall be adopted. Meanwhile, 0.1uF high-frequency ceramic capacitor and one 47uF electrolytic capacitor shall be connected in parallel at the terminal for measurement under 20Mhz bandwidth.					
	3. The power supply is regarded as a component in the system, and electromagnetic compatibility shall be confirmed in combination with the terminal equipment.					

Derating Curve

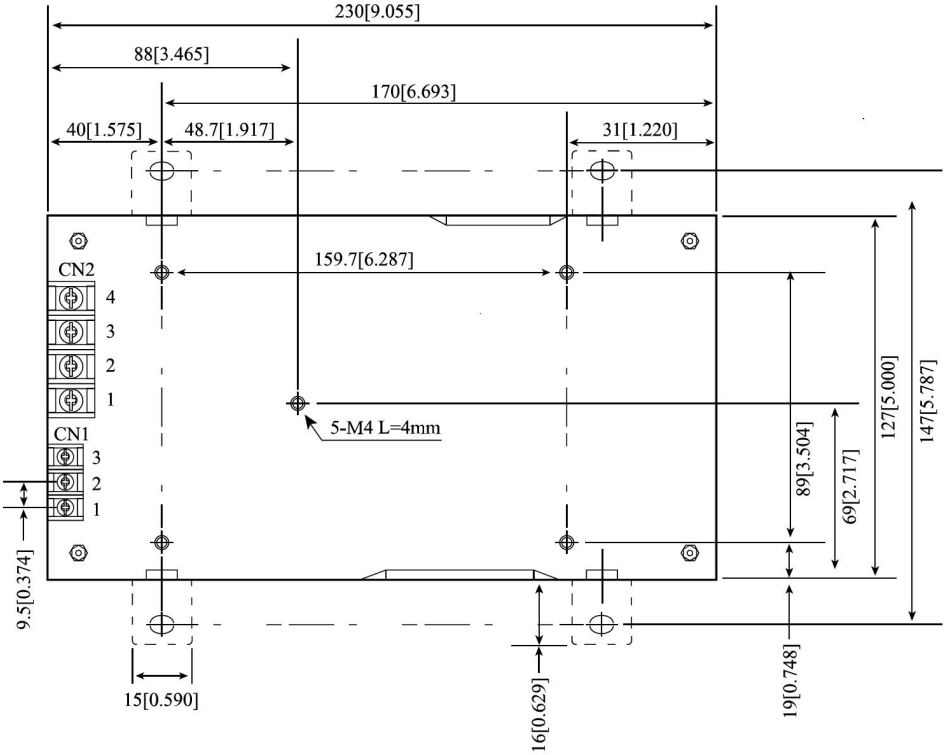
Temperature Derating Curve

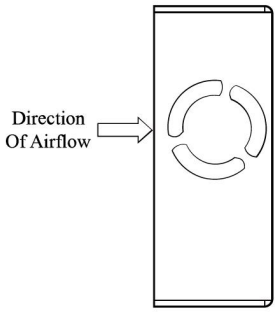


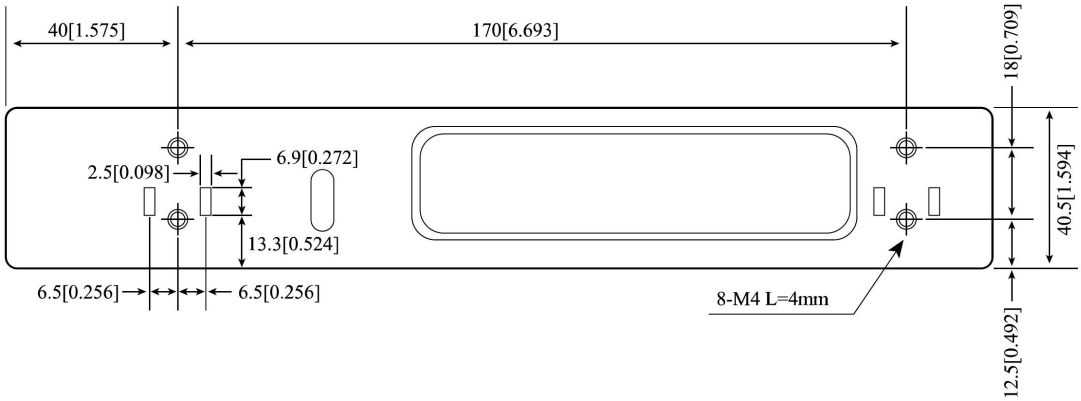
Input Voltage Derating Curve



Dimensions & Function







Pin	Function	
	CN1	CN2
1	+Vin	-Vo
2	-Vin	-Vo
3	GND	+Vo
4	/	+Vo

NOTE: Unit size: mm[inch] Unmarked tolerances: ±0.5mm

Notes:

1. If the product works under the minimum required load, it cannot guarantee that the performance of the product complies with all the performance indicators in this manual;
2. The maximum capacitive load is tested under the input voltage range and full load condition;
3. Unless otherwise stated, all indexes in this manual are measured at Ta=25℃, humidity <75%RH, nominal input voltage and rated output load;
4. All index testing methods in this manual are based on the enterprise standards of the company;
5. Our company can provide product customization, specific needs can directly contact our technical staff;
6.AMCHARD reserves the right to make changes to the product at any time without notice.