

## Features:

1. Extra wide input voltage range (300-1000VDC)
2. Size: 159\*99\*38mm
3. No-load power consumption<0.06W
4. Input reverse connection prevention, output short circuit/ over load protection
5. Operating temperature range -40°C to +85°C
6. 3000V isolation voltage
7. 100% high temperature aging and testing
8. 3 years warranty



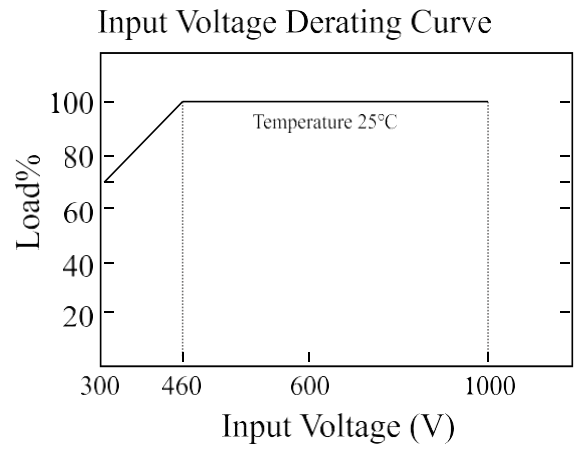
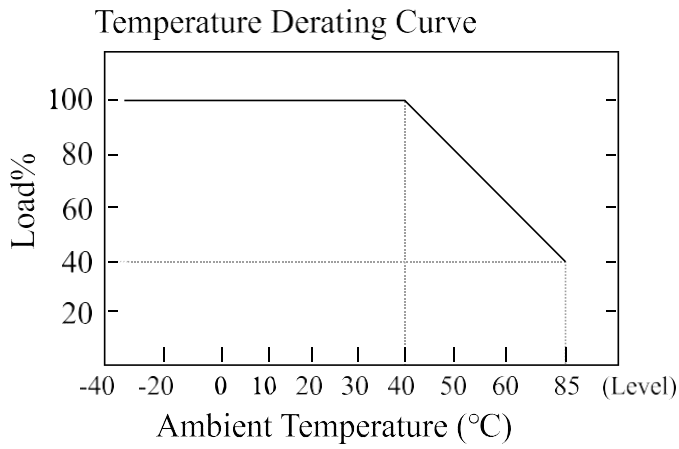
3 years  
Warranty

Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Output Current (A)	Ripple & Noise (mVp-p)	Efficiency (%)
PV-DM60-600S05	600VDC (300-1000)	60	5	12	100	79
PV-DM100-600S12		96	12	8	100	81
PV-DM100-600S15		100	15	6.66	120	82
PV-DM100-600S24		100	24	4.16	150	84
PV-DM100-600S48		100	48	2.08	200	84

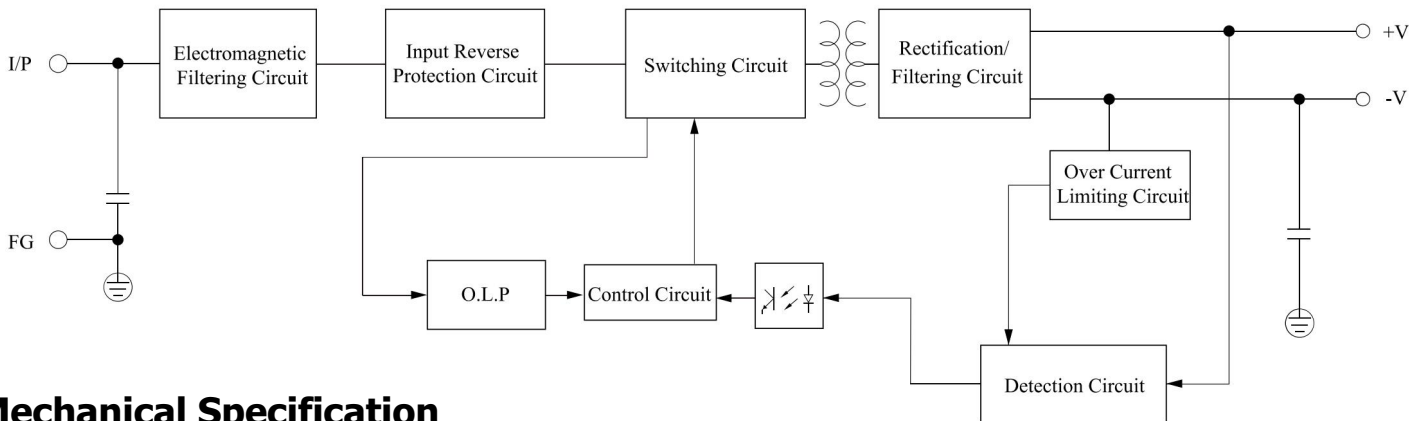
## Specifications

OUTPUT	Voltage Tolerance	±2.0%
	Line Regulation	±1.0%
	Load Regulation	±1.0%
INPUT	Voltage Range	300-1000VDC
	Nominal Voltage	600VDC
	Current (Typ.)	0.45A/300VDC
	Inrush Current (Typ.)	Cold boot 30A/600VDC
	Leakage Current (Typ.)	<1mA/600VDC/50Hz
PROTECTION	Over Load	≥110% load, self-recovery after troubleshooting
	Short Circuit	Hiccup mode, self-recovery after troubleshooting
ENVIRONMENT	Working Temp.	-40°C to +85°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	159*99*38mm (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.	

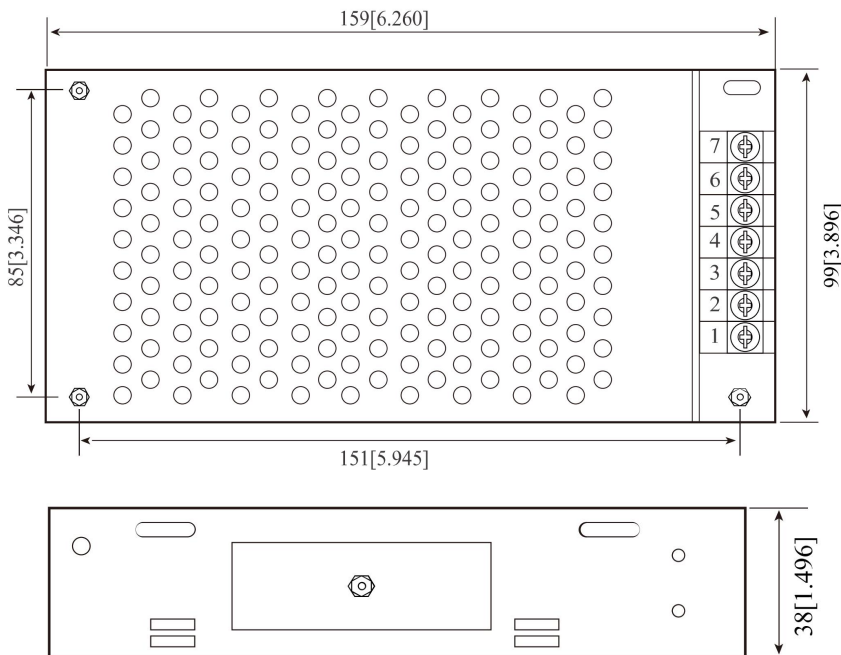
## Typical Characteristics Curve



## Product Schematic



## Mechanical Specification



Pin	Function
1	-Vin
2	+Vin
3	FG
4	NC
5	Vo-
6	Vo+
7	NC

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  $T_a=25^{\circ}\text{C}$ , humidity  $<75\%\text{RH}$ , 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.