Features:

1. Extra wide input voltage range (300-1500VDC)
2. Size: 201*68*35mm
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

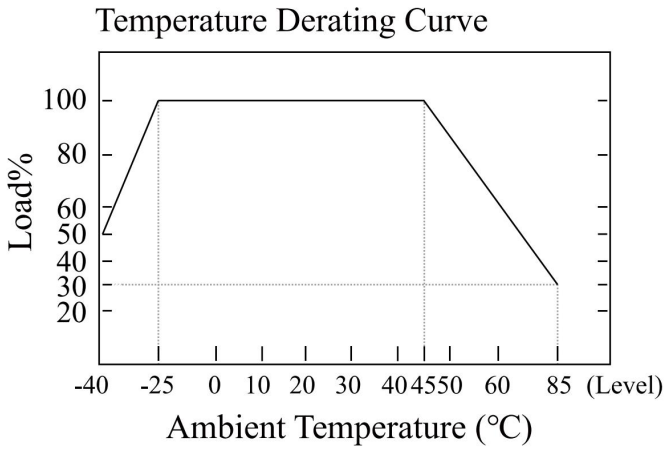
Selection Guide

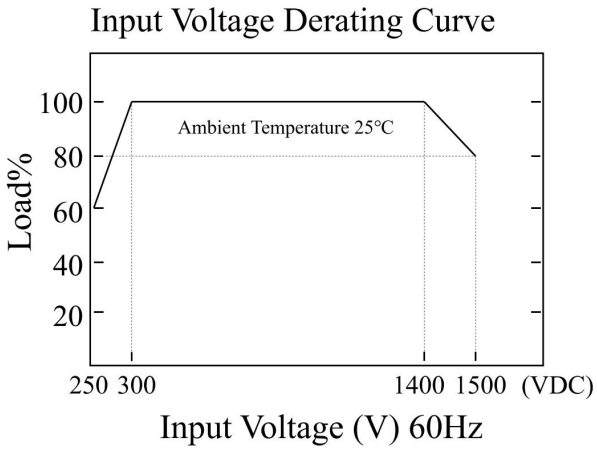
Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Output Current (A)	Maximum Capacitive Load (uF)	Ripple & Noise (mVp-p)	Efficiency (%)
PV-DU150-900S24G-L	900VDC (250-1500)	150	24	6.25	1500	150	89
PV-DU150-900S28G-L		150	28	5.35	1500	150	88
PV-DU150-900S32G-L		150	32	4.68	1500	150	91

Specifications

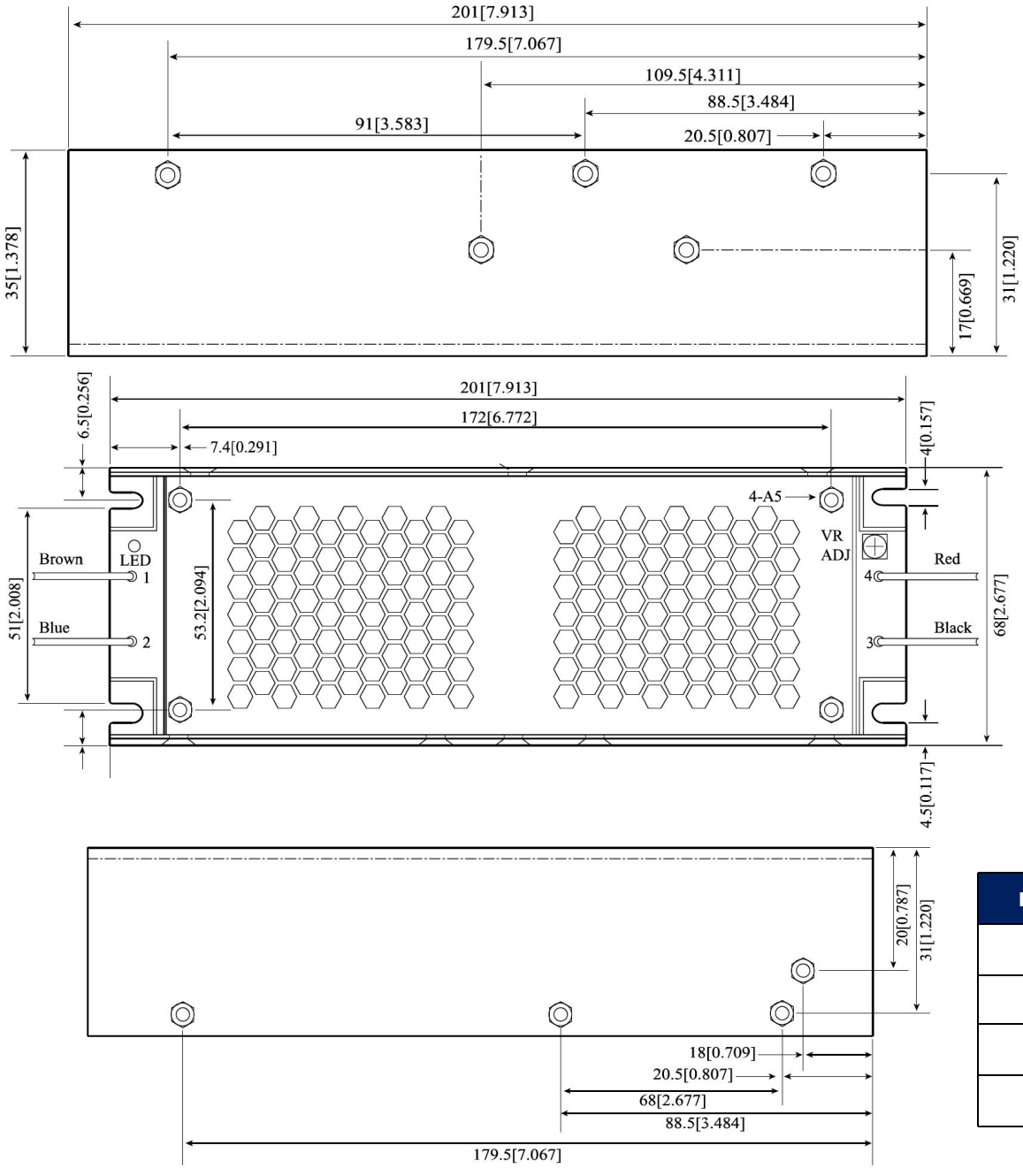
OUTPUT	Voltage Tolerance	±2.0%			
	Line Regulation	±1.0%			
	Load Regulation	±2.0%			
	Setup, Rise Time (Typ.)	2000ms, 20ms/900VDC at full load			
	Hold Up Time (Typ.)	10ms/900VDC at full load			
INPUT	Voltage Range	250-1500VDC			
	Nominal Voltage	900VDC			
	Current (Typ.)	0.2A/900VDC			
	Inrush Current (Typ.)	100A/800VDC 200A/1500VDC			
	External Fuse Recommended	4A/1500VDC			
	Hot Plug	Not supported			
PROTECTION	Over Load	≥110% load, self-recovery after troubleshooting			
	Short Circuit	Hiccup mode, self-recovery after troubleshooting			
	Over Temperature	Output off and can be recovered after power restart			
	Over Voltage	Output off			
		Voltage	24VDC	28VDC	32VDC
		Range	≤30VDC	≤36VDC	≤40VDC
ENVIRONMENT	Working Temp.	-40°C to +85°C (Refer to "Derating curve")			
	Working Humidity	85%RH max			
	Storage Temp., Humidity	-40°C to +85°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: 4000VAC I/P-FG: 3000VAC O/P-FG: 3000VAC			
	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	201*68*35mm (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





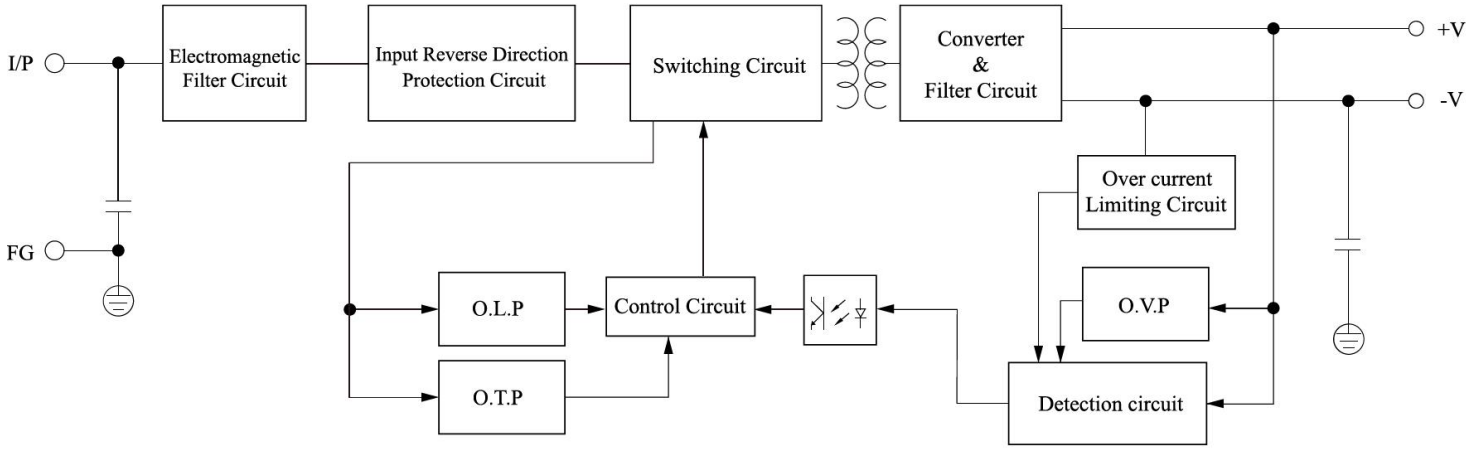
Dimensions & Function



Pin	Function
1	+Vin
2	-Vin
3	-Vo
4	+Vo

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

Product Schematic



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.