

Features:

1. Wide input range (90-264VAC)
2. Size 140*68*35.5mm
3. Protection type: short circuit/over load/over voltage/ over temperature
4. Operating temperature range: -30°C to +70°C
5. 3000V isolation voltage
6. Semi-potted fanless design
7. Active PFC function
8. 100% high temperature burn-in and function test
9. 3 years warranty



3 years
Warranty

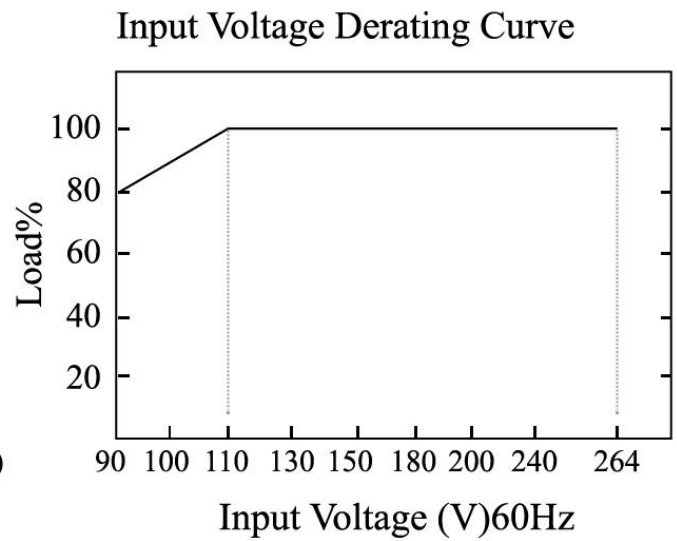
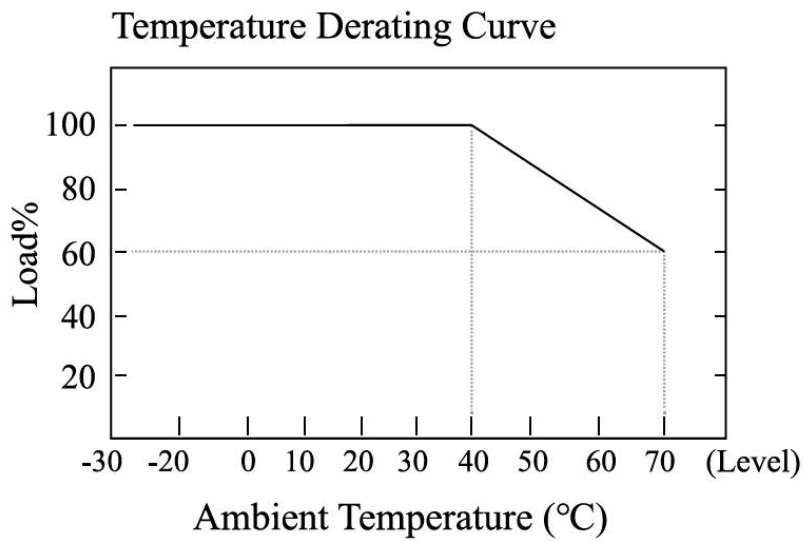
Selection Guide

Model	Input Voltage	Rated Power (W)	Output Voltage (V)	Voltage Adjustable Range (V)	Output Current (A)	Ripple & Noise (mVp-p)	Efficiency (%)
SMP150-S12	90-264VAC	150	12	11.4-12.6	12.5	150	86
SMP150-S15		150	15	14.3-15.8	10	150	86
SMP150-S24		150	24	22.8-25.2	6.25	150	87
SMP150-S36		150	36	34.2-37.8	4.16	150	88
SMP150-S48		150	48	45.6-50.4	3.125	150	89

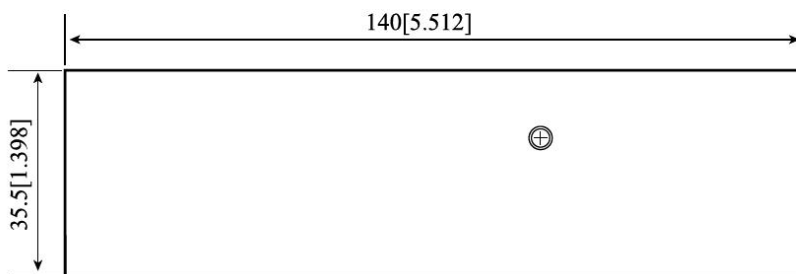
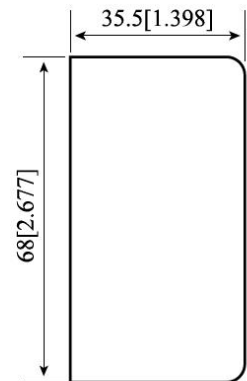
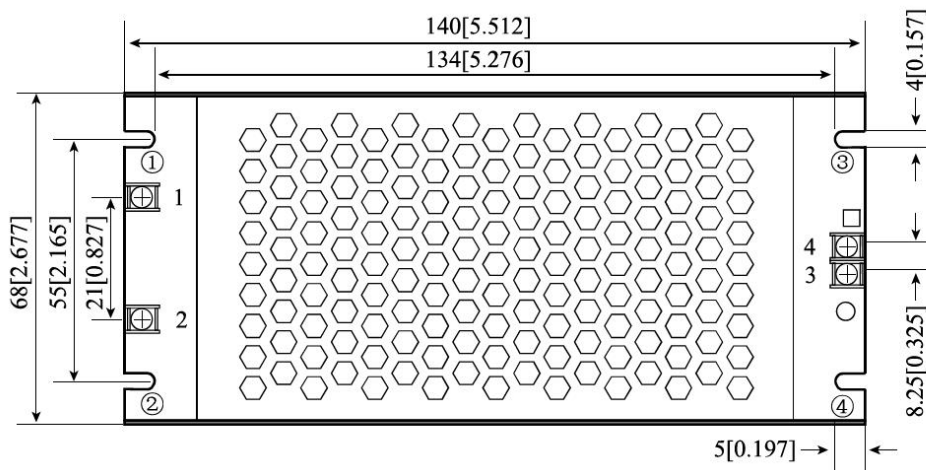
Specifications

OUTPUT	Voltage Tolerance	±2.0%					
	Line Regulation	±0.5%					
	Load Regulation	±1.5%					
	Setup, Rise Time (Max.)	2500ms, 50ms/230VAC at full load					
	Hold Up Time (Min.)	20ms/230VAC at full load					
INPUT	Voltage Range	90-264VAC					
	Frequency	47-63Hz					
	Power Factor (Typ.)	PF≥0.94/230VAC PF≥0.98/115VAC at full load					
	Current (Typ.)	2A/115VAC 1A/230VAC					
	Inrush Current (Typ.)	Cold boot 60A/230VAC					
	Leakage Current (Typ.)	<1mA/240VAC					
PROTECTION	Over Load	≥110% load, recovers automatically after fault condition is removed					
	Short Circuit	Hiccup mode, recovers automatically after fault condition is removed					
	Over Temperature	Turn off the output voltage, and it can automatically recover after the temperature drops					
	Over Voltage	Turn off the output voltage					
		Voltage	12VDC	15VDC	24VDC	36VDC	48VDC
		Range	≤16VDC	≤20VDC	≤32VDC	≤48VDC	≤60VDC
ENVIRONMENT	Working Temp.	-30°C to +70°C (Refer to "Derating curve")					
	Working Humidity	20-90%RH max					
	Storage Temp., Humidity	-40°C to +80°C					
	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	EN62368, UL62368					
	Isolation Voltage	I/P-O/P: 3000VAC I/P-FG(CASE): 1500VAC O/P-FG(CASE): 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 level 4					
	EFT	IEC/EN 61000-4-4 level 4 4kV					
	Surge	IEC/EN 61000-4-5 level 4 2kV					
OTHERS	MTBF	150K hrs min. MIL-HDBK-217F (25°C)					
	Product Dimension	140*68*35.5mm (L*W*H)					
	Weight	348g					
	Package	24pcs/carton, G.W. 9KG/carton					
	Carton Size	360*300*250mm					
NOTE	1. All parameters not specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.						
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.						
	3. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives.						

Derating Curve



Dimensions & Function

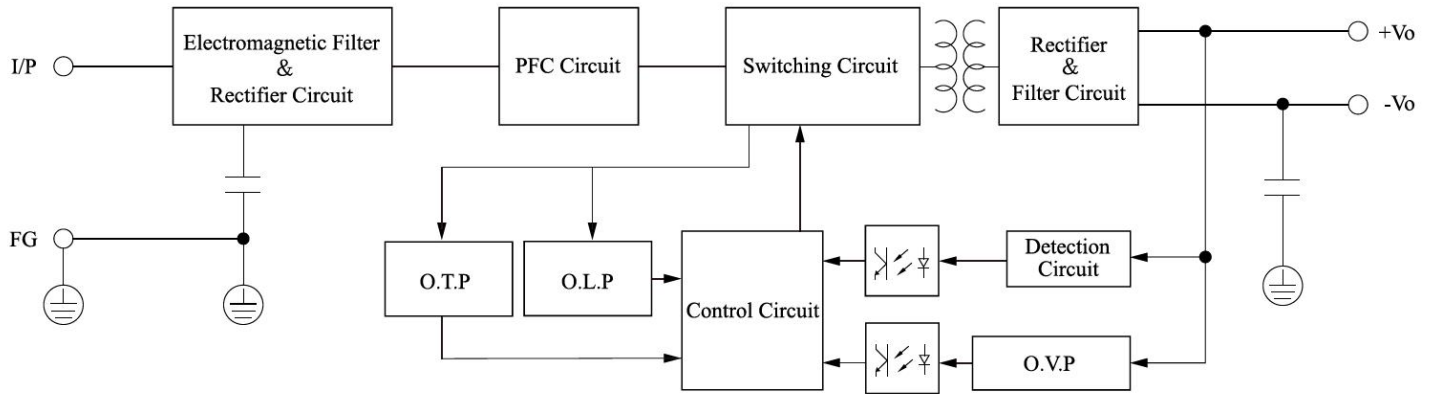


Pin	Function
1	AC(L)
2	AC(N)
3	-Vo
4	+Vo

Installation location	Screw Specifications	L (Suggestion)	Torque (max)
①-④	M3	1.5mm	0.4N·m

NOTE: Unit size: mm[inch] Unmarked tolerances: $\pm 0.5\text{mm}$

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 $T_a=25^{\circ}\text{C}$, 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.

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