

**Features:**

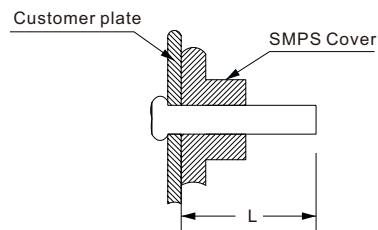
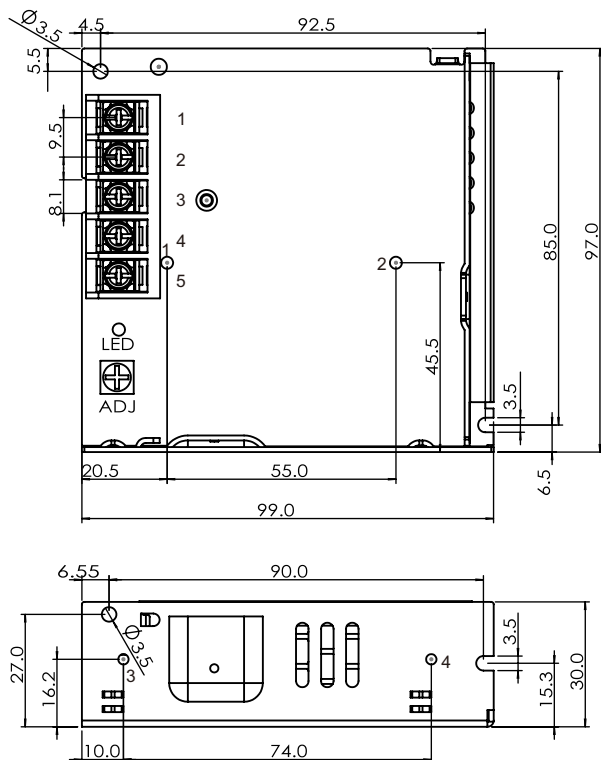
- Universal AC input range
- Withstand 300VAC surge input for 5 second
- Small size, 1U low profile
- Working temperature reach up to 70 °C
- Protections: Short circuit / Overload / Over voltage
- Natural air cooling
- Operating altitude up to 5000m
- Withstanding 5G vibration
- High efficiency, High reliability
- LED indicator for power on
- Overvoltage level III
- 100% full load burn-in test
- 3 years warranty

**Specification**

MODEL		SM75-5P2	SM75-12P2	SM75-15P2	SM75-24P2	SM75-36P2	SM75-48P2
INPUT	VOLTAGE RANGE	85~264Vac 120~370Vdc(refer to 'static characteristic')					
	FREQUENCY RANGE	47~63Hz					
	EFFICIENCY(Typ.)	84.5%	87%	87%	89%	90%	90.5%
	AC CURRENT(Typ.)	1.7A/115Vac 1A/230Vac					
	INRUSH CURRENT(Typ.)	65A/230Vac (cold start)					
	LEAKAGE CURRENT	<0.75mA/240Vac					
OUTPUT	DC VOLTAGE	5V	12V	15V	24V	36V	48V
	RATED CURRENT	14A	6A	5A	3.2A	2.1A	1.6A
	CURRENT RANGE	0~14A	0~6A	0~5A	0~3.2A	0~2.1A	0~1.6A
	RATED POWER	70W	72W	75W	76.8W	75.6W	76.8W
	RIPPLE&NOISE(max.)	100mVp-p	120mVp-p	120mVp-p	150mVp-p	200mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	4.5~5.5V	10.2~13.8V	13.5~18V	21.6~28.8V	32.4~39.6V	43.2~52.8V
	VOLTAGE TOLERANCE	±2%	±1%	±1%	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms,50ms/230Vac 2000ms,50ms/115Vac full-load					
	HOLD UP TIME(Typ.)	55ms/230Vac 10ms/115Vac full-load					
PROTECTION	OVER LOAD	110%~160% rated output power					
		Protection type: Hiccup mode ,recovers automatically after fault condition is removed.					
	OVER VOLTAGE	5.75~9V	13.8~19V	18.8~21.8V	28.8~33.6V	41.4~48.6V	55.2~64.8V
ENVIRONMENT	Protection type: Hiccup mode ,recovers automatically after fault condition is removed.						
	WORKING TEMP.	-30~+70°C(Refer to "Derating curve")					
	WORKING HUMIDITY	20~90% RH non-condensing					
	STORAGE TEMP.,HUMIDITY	-40~+85°C, 10~95% RH non-condensing					
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION	10~500Hz, 5G 10min./1 cycle, period for 60 min. each along X、Y、Z axes					
	OVERVOLTAGE LEVEL	III; Refer to UL61558; EN50178; EN60664-1,EN62477-1; altitude up to 2000 meters					

Safety and electromagnetic compatibility	Safety standards	Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1,IEC/EN 60335-1(PD3) and IEC/EN61558-1,-2,-16		
	Withstand voltage and isolation resistance	I/P-O/P: 4KVac; 100MΩ / 500Vdc / 25°C / 70%RH		
		I/P-FG: 2KVac; 100MΩ / 500Vdc / 25°C / 70%RH		
		O/P-FG: 1.25KVac; 100MΩ / 500Vdc / 25°C / 70%RH		
	Electromagnetic compatibility emission	Parameter	Standard	Test Level / Note
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1	Class B
		Harmonic current	BS EN/EN61000-3-2,GB17625.1	Class A
		Voltage flicker	BS EN/EN61000-3-3	----
	Electromagnetic compatibility immunity	BS EN/EN55035		
		Parameter	Standard	Test Level /Note
		ESD	BS EN/EN61000-4-2	Level 4, 8KV air, Level 2, 4KV contact, criteria A
		RF field susceptibility	BS EN/EN61000-4-3	Level 3, criteria A
		EFT bursts	BS EN/EN61000-4-4	Level 3, criteria A
Surge susceptibility		BS EN/EN61000-4-5	Level 4, 2KV/L-N, 4KV/L/N-FG criteria A	
Conducted susceptibility		BS EN/EN61000-4-6	Level 3, criteria A	
Magnetic field immunity		BS EN/EN61000-4-8	Level 4, criteria A	
Voltage dips and interruptions		BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods , >95% interruptions 250 periods	
OTHERS	MTBF	≥750Khrs MIL-HDBK-217F(25°C)		
	DIMENSION	99*97*30mm(L*W*H)		
	PACKING	0.22Kg; 45pcs/10.9Kg/ 0.82CUFT		
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. Tolerance: includes set up tolerance, line regulation and load regulation. 4. Line regulation is measured from low line to high line at rated load. 5. Load regulation is measured from 0% to 100% rated load 6. Length of set up time is measured at cold first start, Turning ON/OFF the power supply very quickly may lead to increase of the set up time. 7. The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft). 8. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives.			

### Mechanical specification

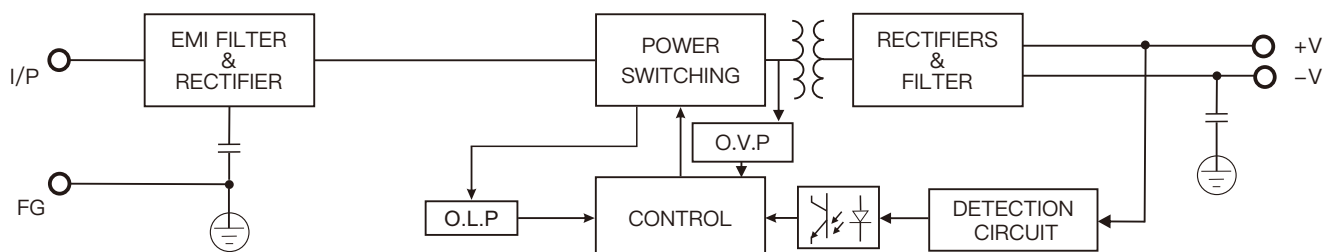


NOTE:  
Unit: mm  
ADJ: Output adjustable resistor  
Torque: M3.5, 0.8N · m Max  
TOL: ±1.00  
Terminal protection cover optional  
(not provided for standard products)

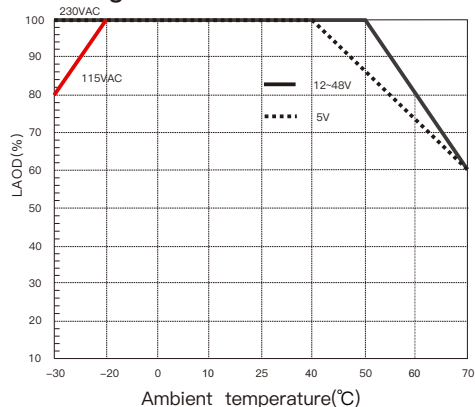
Position No.	Screw Size	L max	Torque max
1-2	M3	3mm	0.4N · m
3-4		5mm	

Screw Terminal			
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -
2	AC/N	5	DC OUTPUT +
3	FG		

### Block diagram



### Derating curve



### Static characteristics

