



### Features:

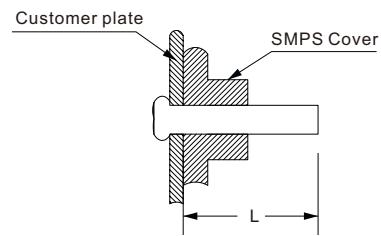
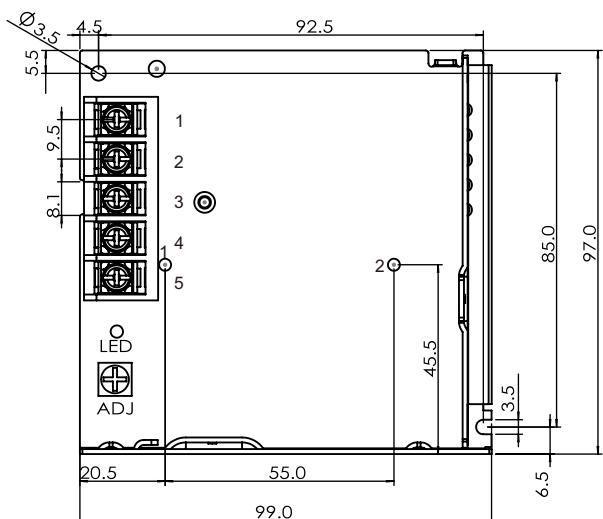
- Universal AC input range
- Withstand 300VAC surge input for 5 second
- Small size, 1U low profile
- Working temperature reach up to 70 °C
- Protections: Short circuit / Overload / Over voltage
- Natural air cooling
- Operating altitude up to 5000m
- Withstanding 5G vibration
- High efficiency、High 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%
	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
	RATED CURRENT	14A	6A	5A	3.2A	2.1A
	CURRENT RANGE	0~14A	0~6A	0~5A	0~3.2A	0~2.1A
	RATED POWER	70W	72W	75W	76.8W	75.6W
	RIPPLE&NOISE(max.)	100mVp-p	120mVp-p	120mVp-p	150mVp-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
	VOLTAGE TOLERANCE	±2%	±1%	±1%	±1%	±1%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1%	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME	1000ms,50ms/230Vac 2000ms,50ms/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
		Protection type: Hiccup mode ,recovers automatically after fault condition is removed.				
ENVIRONMENT	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				

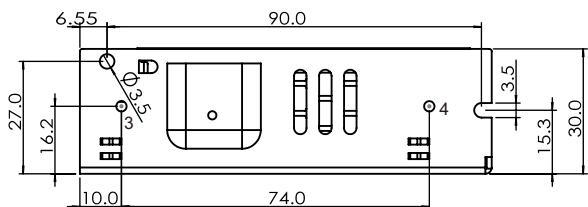
Safety and electromagnetic compatibility	Safety standards	Refer to UL62368-1,TUV EN62368-1,CCC GB4943.1,IEC/EN 60335-1(PD3) and IEC/EN61558-1,-2,-16	
	Withstand voltage and isolation resistance	I/P-O/P: 4KVac; 100MΩ / 500Vdc / 25°C / 70%RH I/P-FG: 2KVac; 100MΩ / 500Vdc / 25°C / 70%RH O/P-FG: 1.25KVac; 100MΩ / 500Vdc / 25°C / 70%RH	
	Electromagnetic compatibility	Parameter	Standard
		Conducted emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1
		Radiated emission	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,GB9254.1
		Harmonic current	BS EN/EN61000-3-2,GB17625.1
		Voltage flicker	BS EN/EN61000-3-3
		BS EN/EN55035	
		Parameter	Standard
		ESD	BS EN/EN61000-4-2
		RF field susceptibility	BS EN/EN61000-4-3
		EFT bursts	BS EN/EN61000-4-4
		Surge susceptibility	BS EN/EN61000-4-5
		Conducted susceptibility	BS EN/EN61000-4-6
		Magnetic field immunity	BS EN/EN61000-4-8
		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	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF &amp; 47uF parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Line regulation is measured from low line to high line at rated load.</li> <li>Load regulation is measured from 0% to 100% rated load</li> <li>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.</li> <li>The ambient temperature derating of 5°C/1000m is needed for operating altitude great than 2000m(6500ft).</li> <li>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.</li> </ol>		

## Mechanical specification



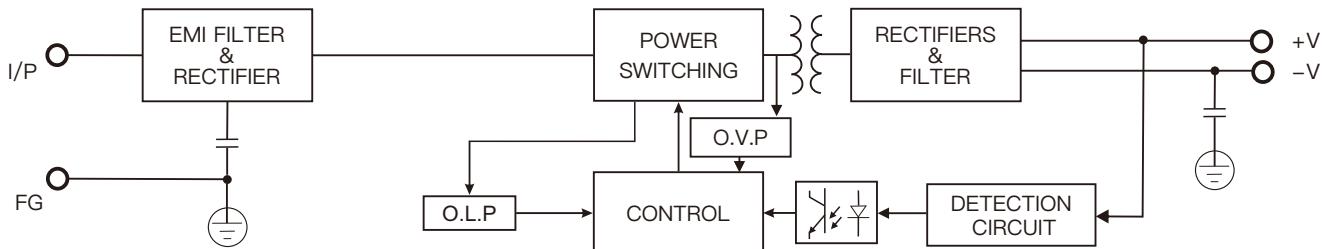
NOTE:  
 Unit: mm  
 ADJ:Output adjustable resistor  
 Torque:M3.5, 0.8N · m Max  
 TOL: ±1.00  
 Terminal protection cover optional  
 (not provided for standard products)

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

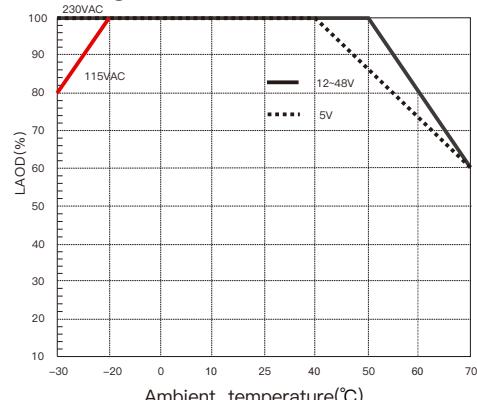


Screw Terminal			
Pin No.	Assignment	Pin No.	Assignment
1	AC/L	4	DC OUTPUT -
2	AC/N	5	DC OUTPUT +
3	FG		

## Block diagram



## Derating curve



## Static characteristics

