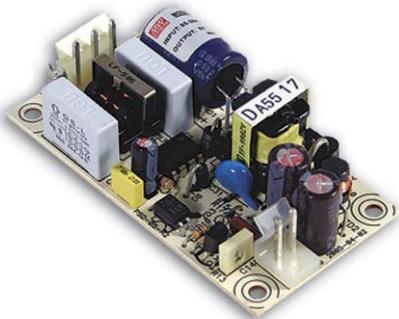




5W Single Output Switching Power Supply

PS-05 series



■ Features :

- Universal AC input / Full range
- Low leakage current <0.5mA
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- 100% full load burn-in test
- Fix switching frequency at 67KHz
- Low cost
- High reliability
- 2 years warranty

User's Manual



BS EN/EN62368-1



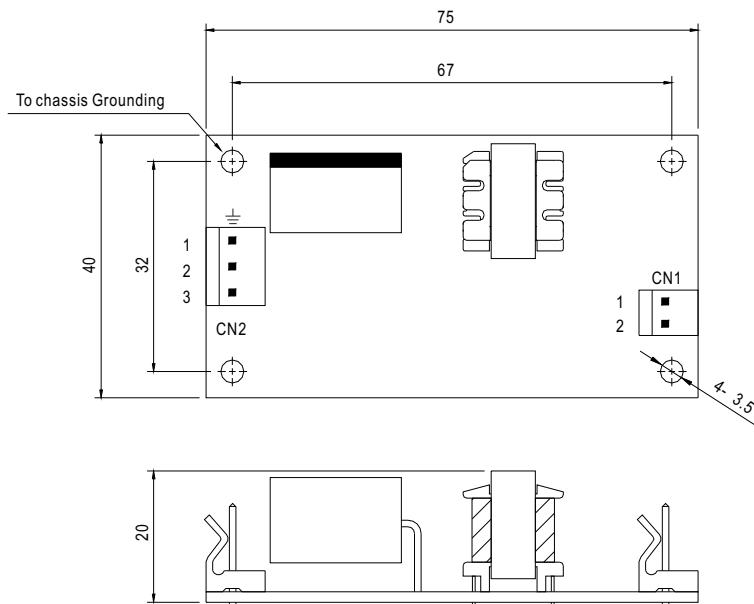
TPTC004 IEC62368-1

SPECIFICATION

MODEL	PS-05-5	PS-05-12	PS-05-15	PS-05-24	PS-05-48
OUTPUT	DC VOLTAGE	5V	12V	15V	24V
	RATED CURRENT	1A	0.45A	0.35A	0.22A
	CURRENT RANGE	0 ~ 1.2A	0 ~ 0.5A	0 ~ 0.4A	0 ~ 0.25A
	RATED POWER	5W	5.4W	5.25W	5.28W
	RIPLINE & NOISE (max.) Note.2	100mVp-p	120mVp-p	120mVp-p	200mVp-p
	VOLTAGE TOLERANCE Note.3	±2.0%	±2.0%	±2.0%	±2.0%
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%
	SETUP, RISE TIME	1000ms, 20ms			
INPUT	HOLD UP TIME(Typ.)	100ms at full load			
	VOLTAGE RANGE	85 ~ 264VAC	120 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY(Typ.)	70%	75%	75%	76%
	AC CURRENT (Typ.)	0.15A/115VAC	0.07A/230VAC		
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 30A/230VAC			
	LEAKAGE CURRENT	<0.5mA / 240VAC			
	OVERLOAD	Above 105% rated output power			
PROTECTION	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.2 ~ 20.2V	27.6 ~ 32.4V
	OVER TEMPERATURE	Hiccup mode, recovery automatically after fault condition is removed			
ENVIRONMENT	WORKING TEMP.	-10 ~ +60 °C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFETY & EMC (Note 4)	SAFETY STANDARDS	TUV BS EN/EN62368-1, EAC TP TC 004 approved, IEC62368-1 CB approved by TUV			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC			
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH			
	EMI CONDUCTION & RADIATION	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020			
	HARMONIC CURRENT	Compliance to BS EN/EN61000-3-2,-3			
OTHERS	EMS IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A, EAC TP TC 020			
	DIMENSION	75*40*20mm (L*W*H)			
	PACKING	0.05Kg; 120pcs/6.25Kg/0.56CUFT			
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. 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. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				

■ Mechanical Specification

Unit:mm



AC Input Connector (CN2) : Molex 5285-03 or equivalent

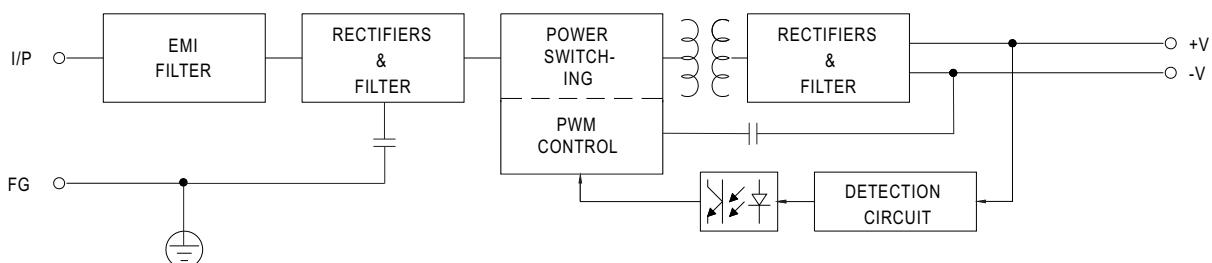
Pin No.	Assignment	Mating Housing	Terminal
1	FG \pm	Molex 5058 or equivalent	Molex 2478 or equivalent
2	AC/N		
3	AC/L		

DC Output Connector (CN1) : Molex 5273-02 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	+V	Molex 5195 or equivalent	Molex 5194 or equivalent
2	-V		

\pm : Grounding Required
CN2:Pin 1 is safety ground

■ Block Diagram



fosc : 67KHz

■ Derating Curve

■ Static Characteristics

