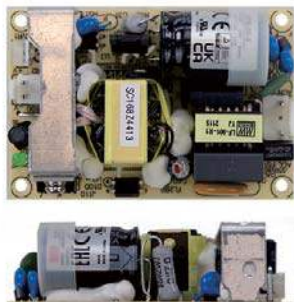




25W Single Output Switching Power Supply

EPS-25 series



■ Features :

- Universal AC input / Full range
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 3"×2" compact size
- LED indicator for power on
- No load power consumption<0.3W
- 3 years warranty

User's Manual



■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

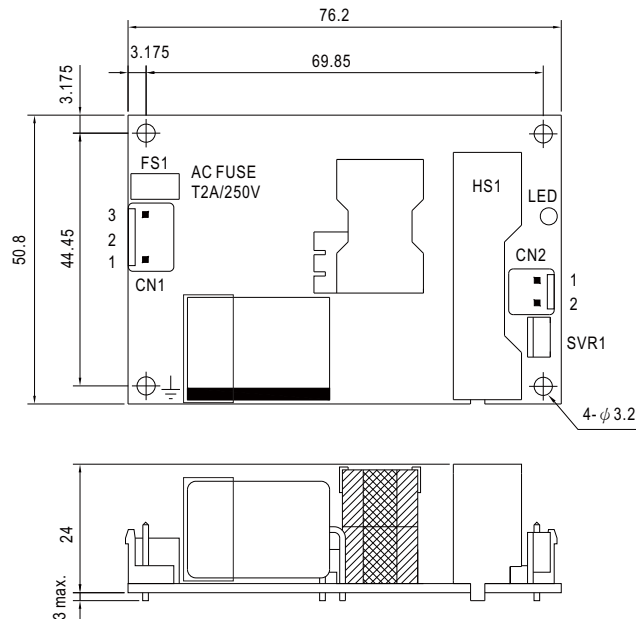


SPECIFICATION

MODEL		EPS-25-3.3	EPS-25-5	EPS-25-7.5	EPS-25-12	EPS-25-15	EPS-25-24	EPS-25-27	EPS-25-36	EPS-25-48	
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V	
	RATED CURRENT	5A	5A	3.4A	2.1A	1.7A	1.05A	0.95A	0.7A	0.53A	
	CURRENT RANGE	0 ~ 5.5A	0 ~ 5.5A	0 ~ 3.74A	0 ~ 2.34A	0 ~ 1.87A	0 ~ 1.17A	0 ~ 1.05A	0 ~ 0.78A	0 ~ 0.59A	
	RATED POWER	16.5W	25W	25.5W	25.2W	25.5W	25.2W	25.65W	25.2W	25.44W	
	PEAK LOAD(10sec.)	Note.6 18.15W	27.5W	28.05W	28.08W	28.05W	28.08W	28.35W	28.08W	28.32W	
	RIPPLE & NOISE (max.)	Note.2 60mVp-p	60mVp-p	80mVp-p	100mVp-p	100mVp-p	180mVp-p	180mVp-p	200mVp-p	240mVp-p	
	VOLTAGE ADJ. RANGE	3.1 ~ 3.6V	4.75 ~ 5.5V	7.13 ~ 8.25V	10.8 ~ 13.5V	13.5 ~ 16.5V	21.6 ~ 27V	24.3 ~ 29.7V	32.4 ~ 39.6V	43.2 ~ 52.8V	
	VOLTAGE TOLERANCE	Note.3 ±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME	1000ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load									
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load									
INPUT	VOLTAGE RANGE	Note.5 85 ~ 264VAC	120 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	79%	81%	83%	86%	87%	88%	89%	89%	90%	
	AC CURRENT (Typ.)	0.6A/115VAC 0.4A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 35A/230VAC									
	LEAKAGE CURRENT	<1mA/240VAC									
PROTECTION	OVER LOAD	115 ~ 170% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed									
	OVER VOLTAGE	3.7 ~ 4.6V	5.6 ~ 6.75V	8.63~ 10.5V	14 ~ 17V	17.25 ~ 20.25V	27.6 ~ 32.4V	31.05 ~ 36.45V	39.7 ~ 46.8V	53.3 ~ 64.8V	
		Protection type : Shut down o/p voltage, re-power on to recover									
ENVIRONMENT	WORKING TEMP.	-30 ~ +70℃ (Refer to "Derating Curve")									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)									
	OPERATING ALTITUDE	Note.8 2000 meters									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes									
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, CCC GB4943.1,EAC TP TC 004 approved									
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25℃ / 70% RH									
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, GB9254.1 Class B,GB17625 Class A,EAC TP TC 020									
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, heavy industry level, EAC TP TC 020									
OTHERS	MTBF	3830.1K hrs min. Telcordia SR-332 (Bellcore) ; 655.4K hrs min. MIL-HDBK-217F (25℃)									
	DIMENSION	76.2*50.8*24mm (L*W*H)									
	PACKING	0.081Kg; 120pcs/10.7Kg/0.94CUFT									
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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. Derating may be needed under low input voltage. Please check the static characteristics for more details. 6. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 7. EPS-25-15/24/27/36/48 without Hs1. 8. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/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 (CN1) : JST B3P-VH or equivalent

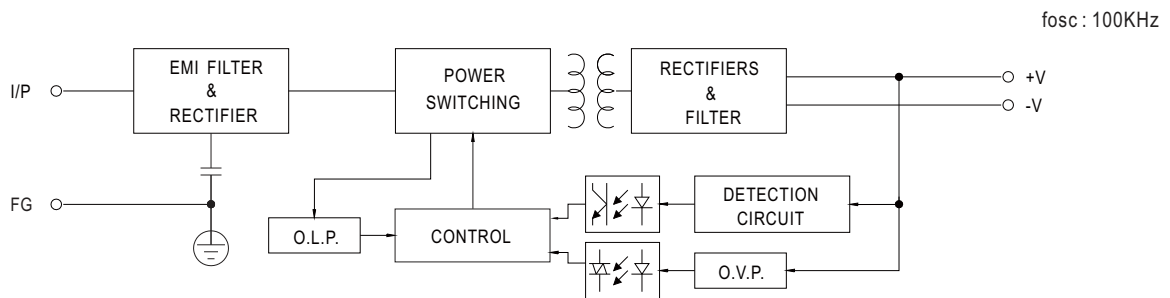
Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	AC/L		

DC Output Connector (CN2) : JST B2P-VH or equivalent

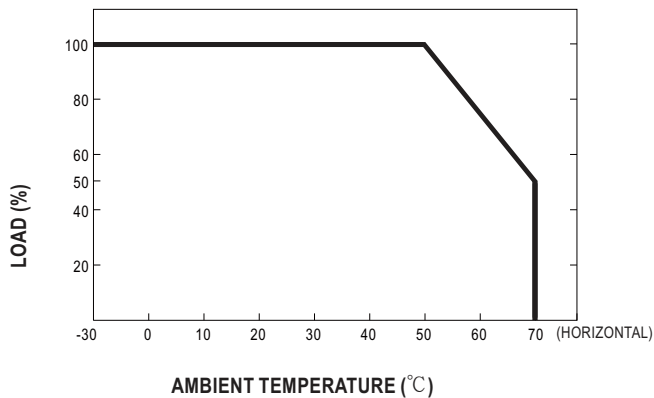
Pin No.	Assignment	Mating Housing	Terminal
1	-V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	+V		

⚠ HS1(Note.7) must have safety isolation distance with system case.
⚡ : Grounding required

Block Diagram



Output Derating



Static Characteristics

