







Features :

- Universal AC input / Full range
- Optional L-Bracket and cover
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 4"×2" compact size
- LED indicator for power on
- No load power consumption<0.3W
- Operating altitude up to 4000 meters
- 3 years warranty









■ GTIN CODE

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

EPS-45-3.3 -C =Blank,-C; Blank=PCB only, -C=Enclosed type

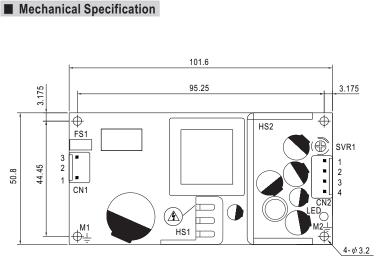
SPECIFICATION

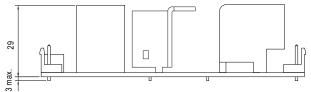
MODEL		EPS-45-3.3	EPS-45-5	EPS-45-7.5	EPS-45-12	EPS-45-15	EPS-45-24	EPS-45-36	EPS-45-48	
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V	
ОИТРИТ	RATED CURRENT	8A	8A	5.4A	3.75A	3A	1.9A	1.25A	1A	
	CURRENT RANGE	0 ~ 9A	0 ~ 9A	0 ~ 6A	0~4.2A	0 ~ 3.3A	0 ~ 2.1A	0 ~ 1.4A	0 ~ 1.1A	
	RATED POWER	26.4W	40W	40.5W	45W	45W	45.6W	45W	48W	
	PEAK LOAD(10sec.) Note.6	29.7W	45W	42W	50.4W	49.5W	50.4W	50.4W	52.8W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	240mVp-p	280mVp-p	300mVp-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	32.4 ~ 39.6V	43.2 ~ 52.8V	
	VOLTAGE TOLERANCE Note.3	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME	1000ms, 50ms/230VAC 2000ms, 50ms/115VAC at full load								
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load								
	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/N(+), AC/L(-)]								
	FREQUENCY RANGE	47 ~ 63Hz								
INPUT	EFFICIENCY (Typ.)	80%	82%	84%	87%	88%	89%	89%	90%	
INPUI	AC CURRENT (Typ.)	1.8A/115VAC 1 A/230VAC								
	INRUSH CURRENT (Typ.)	COLD START 60A/230VAC								
	LEAKAGE CURRENT	<2mA/240VAC								
		115 ~ 160% rated output power								
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION	OVER VOLTAGE	3.7 ~ 4.45V	5.6 ~ 6.75V	8.63 ~ 10.1V	13.8 ~ 16.2V	17.25 ~ 20.25V		39.7 ~ 46.8V	53.3 ~ 64.8V	
		Protection type	: Shut down o/p	voltage, re-pow	er on to recover			I	1	
	WORKING TEMP.	-30 ~ +70°C (Refer to output load derating curve)								
	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%°C (0~50°C)								
	OPERATING ALTITUDE Note.7									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY &	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								
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
(Note 4)	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								
	MTBF	2981.8K hrs min. Telcordia SR-332 (Bellcore) ; 652.4K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	PCB:101.6*50.8*29mm (L*W*H); with optional CASE:103.4*62*37mm (L*W*H)								
	PACKING	PCB: 0.14Kg; 96pcs/ 14.5Kg/1.39CUFT; with optional CASE: 0.3Kg; 45pcs/ 14.5Kg/0.63CUFT								
NOTE	Ripple & noise are measured Tolerance: includes set up to Derating may be needed und Say® Duty cycle maximum wii The power supply is consider mounting the unit on a 3 EMC directives. For guid (as available on http://www.m The ambient temperature der	specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. leasured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. set up tolerance, line regulation and load regulation. sed under low input voltage. Please check the static characteristics for more details. imum within every 30 seconds. Average output power should not exceed the rated power. considered a component which will be installed into a final equipment. All the EMC tests are been executed by it on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." //www.meanwell.com) ature 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

Unit:mm









- 1.HS1,HS2 cannot be shorted.
- 2.HS1 must have safety isolation distance with system case.

AC Input Connector (CN1): JST B3P-VH or equivalent

Pin	No.	Assignment	Mating Housing	Terminal	
1	l	AC/N	ICTVIID	JST SVH-21T-P1.1	
2	2	No Pin	JST VHR or equivalent	or equivalent	
3	3 AC/L		5. 5qa.vaiont	or equivalent	

DC Output Connector (CN2): JST B4P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	+V	JST VHR	JST SVH-21T-P1.1
3,4	-V	or equivalent	or equivalent

± : Grounding Required ;M1 and M2 are Safety ground and should all be grounded.

Optional cover: No.998A -T Mylar film Optional L-Bracket: No.998A -D 2-M3 L=4 27 2-M3 L=3 78

■ Block Diagram

