



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







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
OUTPUT	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(-)]							
INPUT	FREQUENCY RANGE	47 ~ 63Hz							
	EFFICIENCY (Typ.)	80%	82%	84%	87%	88%	89%	89%	90%
	AC CURRENT (Typ.)	1.8A/115VAC	1 A/230VA	Ċ					
	INRUSH CURRENT (Typ.)	COLD START 60A/230VAC							
	LEAKAGE CURRENT	<2mA/240VAC							
PROTECTION		115 ~ 160% rated output power							
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	3.7 ~ 4.45V	5.6 ~ 6.75V	8.63 ~ 10.1V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	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°C (Refer to output load derating curve)							
	WORKING HUMIDITY	20 ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)							
	OPERATING ALTITUDE Note.7	4000 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, 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°C / 70% RH							
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, heavy industry level, criteria A, EAC TP TC 020							
OTHERS	MTBF	652.3Khrs min. MIL-HDBK-217F (25°C)							
	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 o	ptional CASE: 0.	3Kg; 45pcs/ 14.5	Kg/0.63CUFT		
NOTE	Ripple & noise are measured Tolerance: includes set up to Derating may be needed und Say® Duty cycle maximum wi The power supply is consider mounting the unit on a 3 EMC directives. For guid (as available on http://www.m	OT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. The measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. The sets up tolerance, line regulation and load regulation. In each of unique voltage. Please check the static characteristics for more details. In each of unique voltage. Please check the static characteristics for more details. In each of unique voltage. Please check the static characteristics for more details. In each of unique voltage. Please check the static characteristics for more details. In each of unique voltage. Please check the static characteristics for more details. In each of unique voltage. Please results are been executed by unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets es. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." http://www.meanwell.com) In perature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx							







