









### 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</li>
- Operating altitude up to 4000 meters
- 3 years warranty





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

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UL62368-1	BS EN/EN62368-1	TPTC004	IEC62368-1		

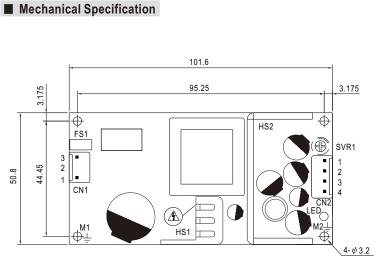
 $\begin{tabular}{lll} EPS-45-3.3 \hline -C & & & & & \\ \hline & = Blank,-C \ ; \ Blank=PCB \ only, \ -C=Enclosed \ type \\ \hline \end{tabular}$ 

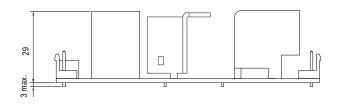
### **SPECIFICATION**

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
	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
OUTBUT	RIPPLE & NOISE (max.) Note.2	80mVp-p	80mVp-p	100mVp-p	120mVp-p	150mVp-p	240mVp-p	280mVp-p	300mVp-p
OUTPUT	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 ~ 52.8\
	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 ~ 370\	DC [DC input o	peration possibl	e by connecting A	AC/N(+), AC/L(-)]		
	FREQUENCY RANGE	47 ~ 63Hz							
INPUT	EFFICIENCY (Typ.)	80%	82%	84%	87%	88%	89%	89%	90%
01	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		3.7 ~ 4.45V	5.6 ~ 6.75V	8.63 ~ 10.1V	13.8 ~ 16.2V	17.25 ~ 20.25	V 27.6 ~ 32.4V	39.7 ~ 46.8V	53.3 ~ 64.8
	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover							
	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 STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved							
SAFETY &	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, 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, EAC TP TC 020							
	MTBF	2981.8K hrs min. Telcordia SR-332 (Bellcore) ; 652.4K hrs min. MIL-HDBK-217F (25°C)							
	WIIDF	PCB:101.6*50.8*29mm (L*W*H); with optional CASE:103.4*62*37mm (L*W*H)							
OTHERS		PCB:101.6*50	.8*29mm (L*W	*H) ; with optional	PCB: 0.14Kg; 96pcs/ 14.5Kg/1.39CUFT; with optional CASE: 0.3Kg; 45pcs/ 14.5Kg/0.63CUFT				
OTHERS	DIMENSION PACKING						5Kg/0.63CUFT		

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
Ī	1	AC/N	107.//10	10T 0\ /I I 04T D4 4
Ī	2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
Ī	3	AC/L		or oquivaloni

## 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

# 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

