



#### ■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 1.8"x2.5" compact size
- No load power consumption<0.3W
- 3 years warranty

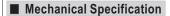
# **SPECIFICATION**

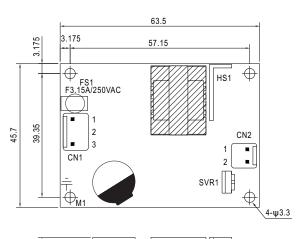


MODEL		EPS-15-3.3	EPS-15-5	EPS-15-7.5	EPS-15-12	EPS-15-15	EPS-15-24	EPS-15-27	EPS-15-36	EPS-15-48
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V
	RATED CURRENT	3A	3A	2A	1.25A	1A	0.625A	0.56A	0.42A	0.313A
	CURRENT RANGE	0 ~ 3.3A	0 ~ 3.3A	0 ~ 2.2A	0 ~ 1.38A	0 ~ 1.1A	0 ~ 0.69A	0 ~ 0.615A	0~0.46A	0~0.344A
	RATED POWER	9.9W	15W	15W	15W	15W	15W	15.12W	15.12W	15.02W
	PEAK LOAD(10sec.) Note.6	10.89W	16.5W	16.5W	16.56W	16.5W	16.56W	16.6W	16.56W	16.51W
OUTDUT	RIPPLE & NOISE (max.) Note.2	50mVp-p	50mVp-p	80mVp-p	80mVp-p	100mVp-p	150mVp-p	180mVp-p	200mVp-p	200mVp-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	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, 30m	is/230VAC	2000ms, 30ms	/115VAC at full	load		•		
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load								
	VOLTAGE RANGE Note.5	85 ~ 264VAC 120 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
INPUT	EFFICIENCY (Typ.)	75%	78%	81%	82%	83%	83%	84%	85%	85%
INFOI	AC CURRENT (Typ.)	0.4A/115VA0	0.2A/23	BOVAC		•				•
	INRUSH CURRENT (Typ.)	COLD START 45A/230VAC								
	LEAKAGE CURRENT	<1mA/240VAC								
		115 ~ 150% rated output power								
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION		3.8 ~ 4.85V   5.6 ~ 6.75V   8.63~ 10.1V   13.8 ~ 16.2V   17.25 ~ 20.25V   27.6 ~ 33V   31.05 ~ 36.45V   39.7 ~ 46.8V   55.2 ~ 65.8V								
	OVER VOLTAGE	Protection type: Shut down o/p voltage, Clamping by zener diode								
	WORKING TEMP.	-30 ~ +70°C (Refer to "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)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved								
SAFETY &	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								
(Note 4)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, heavy industry level, criteria A								
OTHERS	MTBF	824.6Khrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	63.5*45.7*24mm (L*W*H)								
	PACKING	0.057Kg; 12	0pcs/ 7.84Kg/0	0.97CUFT						
NOTE	Ripple & noise are measure     Tolerance : includes set up     The power supply is consid     EMC directives.     Derating may be needed ui	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  p tolerance, line regulation and load regulation.  dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets  under low input voltage. Please check the static characteristics for more details.  within every 30 seconds. Average output power should not exceed the rated power.								

Unit:mm









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

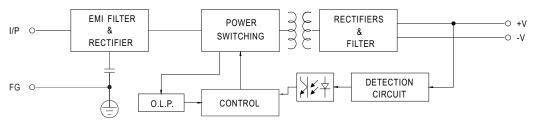
		,	,		
	Pin No.	Assignment	Mating Housing	Terminal	
	1	AC/L	JST VHR	JST SVH-21T-P1.1 or equivalent	
	2	No Pin	or equivalent		
ı	3	AC/N		or oquiraioni	

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

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

## ■ Block Diagram

fosc: 65KHz



## **■** Output Derating

## ■ Static Characteristics

