



### Features:

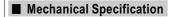
- Universal AC input / Full range
- High efficiency up to 90%
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- 2"x3" compact size
- LED indicator for power on
- No load power consumption<0.3W
- 3 years warranty

# **SPECIFICATION**

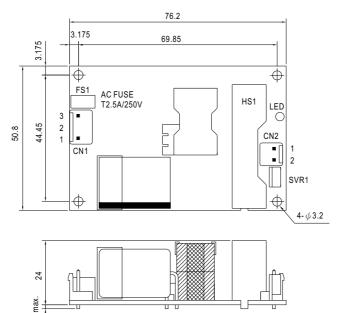


MODEL		EPS-25-3.3	EPS-25-5	EPS-25-7.5	EPS-25-12	EPS-25-15	EPS-25-24	EPS-25-27	EPS-25-36	EPS-25-48
	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V
	RATED CURRENT	5A	5A	3.4A	2.1A	1.7A	1.05A	0.95A	0.7A	0.53A
	CURRENT RANGE	0 ~ 5.5A	0 ~ 5.5A	0~3.74A	0 ~ 2.34A	0 ~ 1.87A	0 ~ 1.17A	0 ~ 1.05A	0~0.78A	0 ~ 0.59A
	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	50mVp-p	60mVp-p	80mVp-p	80mVp-p	100mVp-p	180mVp-p	180mVp-p	200mVp-p	240mVp-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 ~ 52.8\
	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	s/230VAC	1000ms, 30m	ns/115VAC at fu	ıll load			I.	
	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.)	79%	81%	83%	86%	87%	88%	89%	89%	90%
INPUT	AC CURRENT (Typ.)	0.6A/115VAC	0.4A/23	BOVAC						
	INRUSH CURRENT (Typ.)	COLD START 35A/230VAC								
	LEAKAGE CURRENT	<1mA/240VAC								
		115 ~ 160% rated output power								
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
PROTECTION		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								
	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover								
	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:1.5KVAC 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 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								
	MTBF	655.3Khrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	76.2*50.8*24mm (L*W*H)								
	PACKING	0.081Kg; 120	pcs/10.7Kg/0.9	97CUFT						
NOTE	Ripple & noise are measure     Tolerance : includes set up     The power supply is consid     EMC directives.     Derating may be needed up	ameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  nce: includes set up tolerance, line regulation and load regulation.  power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets directives.  ng may be needed under low input voltage. Please check the static characteristics for more details.  Duty cycle maximum 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/N	IOTAUD	JST SVH-21T-P1.1 or equivalent	
2	No Pin	JST VHR or equivalent		
3	AC/L	0.044		

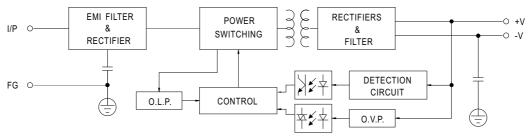
DC Output Connector (CN2): JST B4P-VH or equivalent

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

HS1 must have safety isolation distance with system case.

# **■** Block Diagram

fosc: 100KHz



# **■** Output Derating

### **■** Static Characteristics

