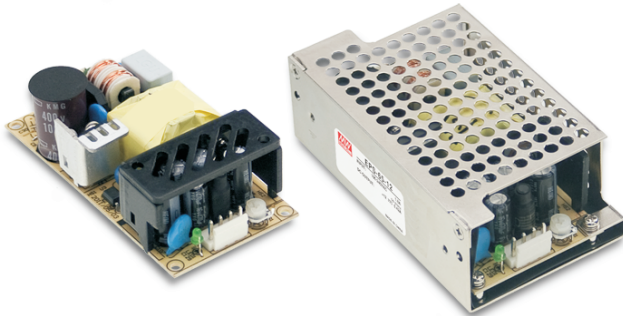




65W Single Output Switching Power Supply

EPS-65 series



■ 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
- 2"X4" compact size
- LED indicator for power on
- No load power consumption < 0.3W
- 3 years warranty

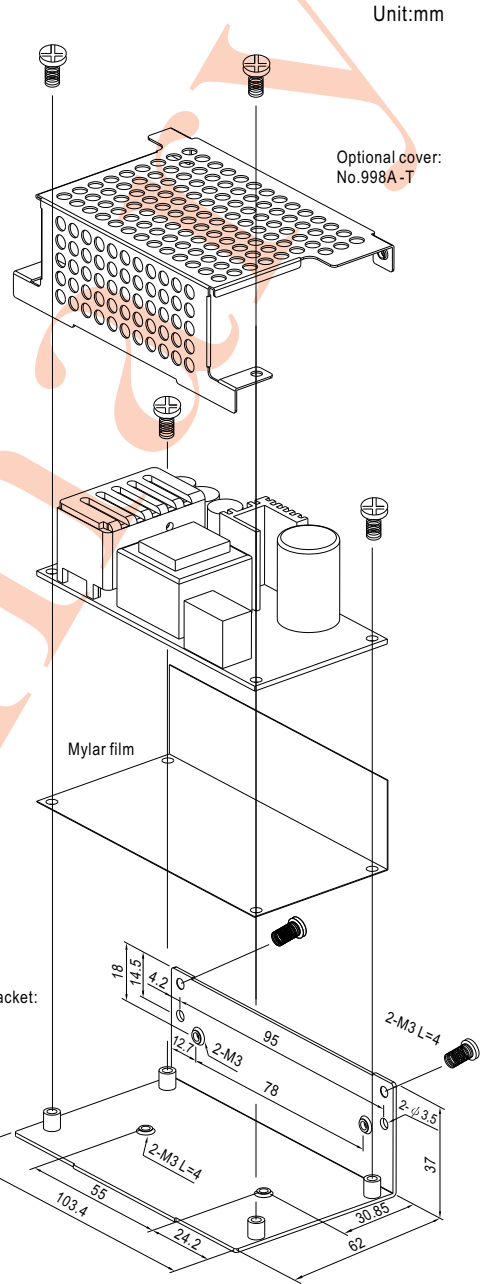
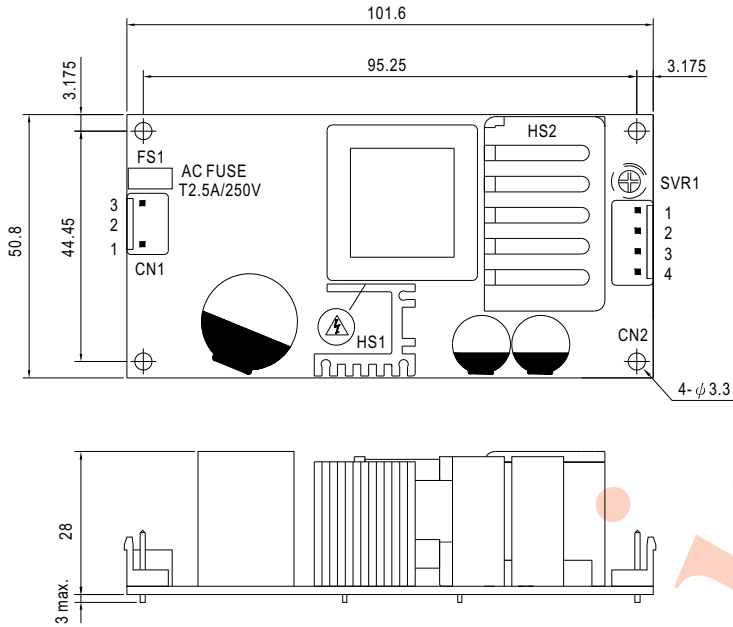


EPS-65-3.3 =Blank, C ; Blank=PCB only, C=Enclosed type

SPECIFICATION

MODEL	EPS-65-3.3 <input type="checkbox"/>	EPS-65-5 <input type="checkbox"/>	EPS-65-7.5 <input type="checkbox"/>	EPS-65-12 <input type="checkbox"/>	EPS-65-15 <input type="checkbox"/>	EPS-65-24 <input type="checkbox"/>	EPS-65-36 <input type="checkbox"/>	EPS-65-48 <input type="checkbox"/>		
OUTPUT	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	36V	48V	
	RATED CURRENT	11A	11A	8A	5.42A	4.34A	2.71A	1.81A	1.36A	
	CURRENT RANGE	0 ~ 12A	0 ~ 12A	0 ~ 8.8A	0 ~ 6A	0 ~ 4.8A	0 ~ 3A	0 ~ 2A	0 ~ 1.5A	
	RATED POWER	36.3W	55W	60W	65.04W	65.1W	65.04W	65.16W	65.28W	
	PEAK LOAD(10sec.) <small>Note.6</small>	39.6W	60W	66W	72W	72W	72W	72W	72W	
	RIPPLE & NOISE (max.) <small>Note.2</small>	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 <small>Note.3</small>	±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	100ms, 30ms/230VAC 100ms, 30ms/115VAC at full load									
HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load									
INPUT	VOLTAGE RANGE <small>Note.5</small>	90 ~ 264VAC		127 ~ 370VDC						
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	80%	82%	84%	87%	88%	89%	89%	90%	
	AC CURRENT (Typ.)	1.8A/115VAC		1 A/230VAC						
	INRUSH CURRENT (Typ.)	COLD START 60A/230VAC								
LEAKAGE CURRENT	<1mA/240VAC									
PROTECTION	OVER LOAD	115 ~ 150% rated output power 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)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
SAFETY & EMC <small>(Note 4)</small>	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved								
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC								
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH								
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B								
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3								
EMSA IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, heavy industry level, criteria A									
OTHERS	MTBF	Khrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	PCB:101.6*50.8*28mm (L*W*H) ; with optional CASE:103.4*62*37mm (L*W*H)								
	PACKING	PCB: Kg; 96pcs/ Kg/0.89CUFT ; with optional CASE: Kg; 45pcs/ Kg/0.67CUFT								
NOTE	<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The 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 EMC directives. 5. Derating may be needed under low input voltage. Please check the static characteristics for more details. 6. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power. 									

Mechanical Specification



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

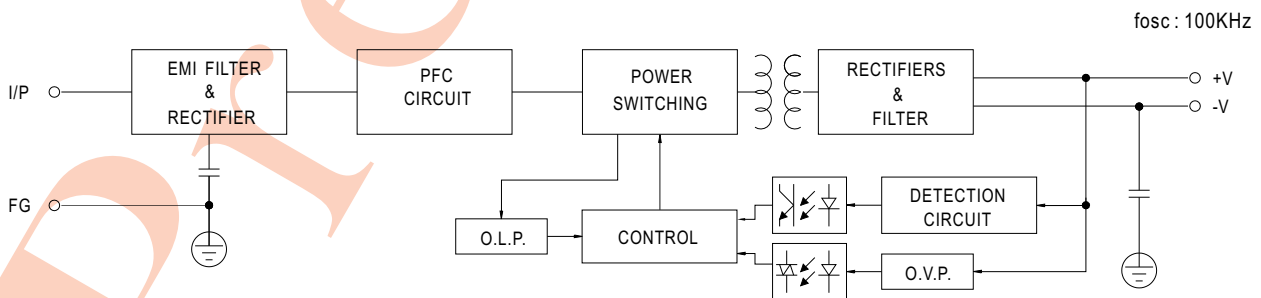
AC Input Connector (CN1) : JST B3P-VH or equivalent

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

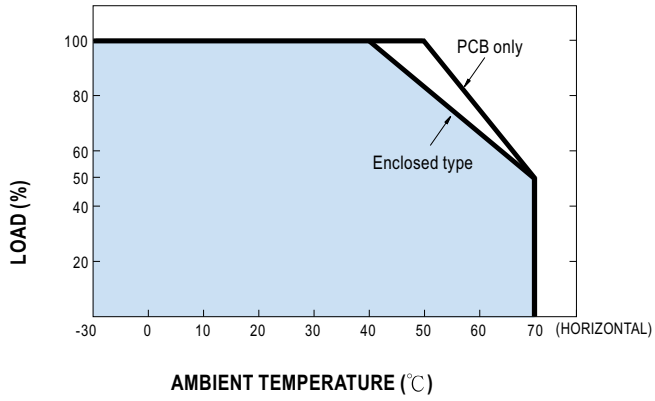
DC Output Connector (CN2) : JST B4P-VH or equivalent

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

Block Diagram



■ Output Derating



■ Static Characteristics

