

## E-Star Power Development Co., Ltd. (E-STAR)

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

## 65W Open Frame type Single output power supply > EPS-65



#### 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







EPS-65-3.3 -C

=Blank,-C; Blank=PCB only, -C=Enclosed type

#### **SPECIFICATION**

NOTE

MODEL		EPS-65-3.3	EPS-65-5	EPS-65-7.5	EPS-65-12	EPS-65-15	EPS-65-24	EPS-65-36	EPS-65-48	
ОИТРИТ	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.) Note.6	39.6W	60W	66W	72W	72W	72W	72W	72W	
	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 ~ 52.8	
	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 12ms/115VAC at full load								
INPUT	VOLTAGE RANGE Note.5	90 ~ 264VAC 127 ~ 370VDC [DC input operation possible by connecting AC/N(+), AC/L(-)]								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	80%	82%	84%	86%	87%	88%	89%	90%	
	AC CURRENT (Typ.)	1.8A/115VAC 1A/230VAC								
	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								
		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-pov	wer on to recover	r				
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 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 EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, heavy industry level, criteria A, EAC TP TC 020								
OTHERS	MTBF		563Khrs 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)								
OTHERS	S11. S	PCB: 0.15Kg; 96pcs/ 15.4 Kg/1.39CUFT; with optional CASE: 0.3Kg; 45pcs/ 14.5Kg/0.63CUFT								

- 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. Derating may be needed under low input voltage. Please check the static characteristics for more details.
  5. 33% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.
  6. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit
- on a 360mm 360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."
- 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).



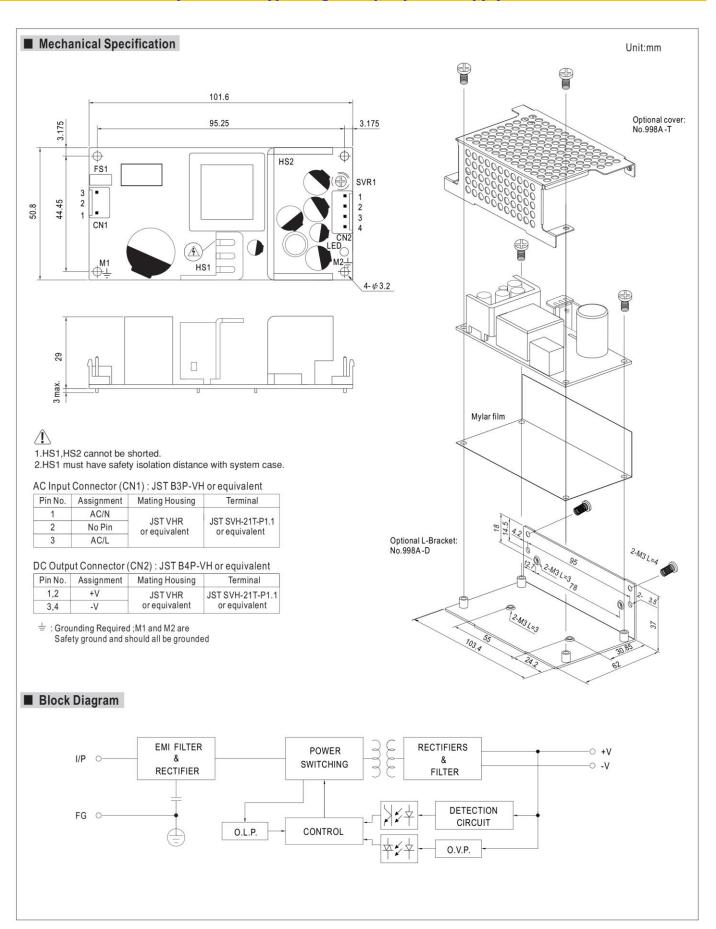
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