

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

35W Open Frame type Single output power supply > EPS-35



■ Features :

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



MODEL		EPS-35-3.3	EPS-35-5	EPS-35-7.5	EPS-35-12	EPS-35-15	EPS-35-24	EPS-35-27	EPS-35-36	EPS-35-48		
ОИТРИТ	DC VOLTAGE	3.3V	5V	7.5V	12V	15V	24V	27V	36V	48V		
	RATED CURRENT	6A	6A	4.7A	3A	2.4A	1.5A	1.3A	1A	0.75A		
	CURRENT RANGE	0~6.6A	0~6.6A	0 ~ 5.2A	0~3.3A	0~2.65A	0 ~ 1.65A	0 ~ 1.45A	0 ~ 1.1A	0 ~ 0.82A		
	RATED POWER	19.8W	30W	35.25W	36W	36W	36W	35.1W	36W	36W		
	PEAK LOAD(10sec.) Note.6	21.78W	33W	39W	39.6W	39.75W	39.6W	39.15W	39.6W	39.36W		
	RIPPLE & NOISE (max.) Note.2	60mVp-p	70mVp-p	80mVp-p	100mVp-p	100mVp-p	180mVp-p	180mVp-p	200mVp-p	240mVp-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	24.3 ~ 29.7V	32.4 ~ 39.6V	43.2 ~ 52.8		
	VOLTAGE TOLERANCE Note.3	±2.5%	±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	±1.5%	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%		
	SETUP, RISE TIME	1000ms, 30ms/230VAC 1000ms, 30ms/115VAC at full load										
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms/115VAC at full load										
INPUT	VOLTAGE RANGE Note.5	85 ~ 264VAC 120 ~ 370VDC										
	FREQUENCY RANGE	47 ~ 63Hz										
	EFFICIENCY (Typ.)	80%	82%	84%	87%	88%	89%	89%	89%	90%		
	AC CURRENT (Typ.)	0.75A/115VAC 0.5A/230VAC										
	INRUSH CURRENT (Typ.)	COLD START 40A/230VAC										
	LEAKAGE CURRENT	<1mA/240VAC										
PROTECTION	OVED LOAD	115 ~ 170% rated output power										
	OVER LOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed										
	OVER VOLTAGE	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										
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "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.8	2000 meters										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
	SAFETY STANDARDS	UL62368-1, TUV 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 (Note 4)	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	649.1K hrs m	649.1K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	76.2*50.8*24	mm (L*W*H)		76.2*50.8*24mm (L*W*H)							
OTHERS		0.085Kg; 120pcs/11.2Kg/0.94CUFT										

- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
 Tolerance: includes set up tolerance, line regulation and load regulation.
 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."
- 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.
- 7. EPS-35-24/27/36/48 without Hs1.
- 8. 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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