

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

240W Desktop power supply < ENP-240















- · Universal AC input / Full range
- · Built-in active PFC function
- Energy efficiency Level VI
- No load power consumption <0.15W
- Comply with EISA 2007/DoE, NRCan and EU ErP
- · 125% peak load capability
- · Fanless design, cooling by free air convection
- Protection: Short circuit / Overload / Over voltage / Over temperature
- · 3 years warranty







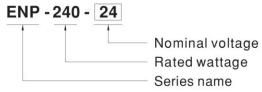
Applications

- · Land mobile radio system
- · Surveillance system
- TV antenna facility

■ Description

ENP-240 series is a 240W desktop type power supply working perfectly for communication related applications. Observing the standard 7" width size in the land mobile radio field, it provides the most frequently used voltage in the communication field. With the rugged mechanical design along with the high efficiency circuitry, it operates for the ambient temperature range $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$ under free air convection.

■ Model Encoding





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SPECIFICATION

MODEL			ENP-240-12	ENP-240-24	ENP-240-48	
	DC VOLTAGE RATED CURRENT		13.8V	27.6V	55.2V	
			17.4A	8.7A	4.4A	
	CURRENT	RATED	0 ~ 17.4A	0 ~ 8.7A	0 ~ 4.4A	
	CORRENT	PEAK Note	.2 21.7A	10.9A	5.5A	
	WATTACE	RATED	240.1W	240.1W	243W	
OUTPUT	WATTAGE	PEAK Note	.2 300W	300W	304W	
	RIPPLE & NO	DISE (max.) Note	.3 150mVp-p	150mVp-p	350mVp-p	
	VOLTAGE A		11.5 ~ 15V	23.5 ~ 30V	47.5 ~ 58.8V	
	VOLTAGE TOLERANCE Note.4		- V - V - V - V - V - V - V - V - V - V	±1.0%	±1.0%	
			.5 ±0.5%	±0.5%	±0.5%	
			6 ±2.0%	±1.0%	±0.5%	
			7 1000ms, 100ms at full load	上1.0%	±0.5%	
			AND A STATE OF THE PROPERTY OF			
	HOLD UP TIME (Typ.)		20ms at full load			
			90 ~ 264VAC 127 ~ 370VDC			
	FREQUENCY RANGE		47 ~ 63Hz			
	POWER FACTOR (Typ.)		PF>0.98/115VAC, PF>0.95/230VAC	Cat full load	1	
INPUT	EFFICIENCY (Typ.)		91%	93.5%	94%	
1111 01	AC CURRENT (Typ.)		2.5A/115VAC 1.25A/230VAC			
	INRUSH CURRENT (Typ.)		COLD START 75A at 230VAC	COLD START 75A at 230VAC		
	LEAKAGE CURRENT		<3.5mA/240VAC			
	NO LOAD POWER CONSUMPTION		<0.15W			
	SHORT CIRCUIT		Protection type: Constant current limiting, recovers automatically after fault condition is removed			
PROTECTION	SHOKT CIRCUIT		Normally works within 110 ~ 125% rated output power for more than 3 seconds and switches to constant current limiting, with			
	OVERLOAD		auto-recovery after the peak load condition is removed			
			Constant current limiting, if >125% rated power, with auto-recovery after the overload condition is removed			
	OVER VOLTAGE		15.5 ~ 18.2V 31 ~ 36.5V 62.1 ~ 72.9V			
			Protection type : Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE					
	March and received on the	La Contraction Con	Shut down O/P voltage, recovers automatically after temperature goes down -30 ~ +70°C (Refer to "Derating Curve")			
	WORKING TEMP.					
	WORKING HUMIDITY		20 ~ 95% RH non-condensing			
ENVIRONMENT	STORAGE TEMP., HUMIDITY					
	TEMP. COEFFICIENT		±0.05%/°C (0~50°C)			
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
	SAFETY STANDARDS		IEC62368-1, UL62368-1, 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 EMC IMMUNITY		Parameter	Standard	Test Level / Note	
			Conducted	EN55032 (CISPR32) / FCC PART15 (CISPR22)	Class B	
			Radiated	EN55032 (CISPR32) / FCC PART15 (CISPR22)	I BOOK STORE TO SEE THE SECOND	
			Harmonic Current	EN61000-3-2		
			Voltage Flicker	EN61000-3-3		
SAFETY &			EN55024	EN01000-3-3	I,	
EMC (Note 9)			Was a second and a	0.1.1		
			Parameter	Standard	Test Level / Note	
			ESD	EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact	
			Radiated	EN61000-4-3	Level 2, 3V/m	
			EFT / Burst	EN61000-4-4	Level 2, 1KV	
			Surge	EN61000-4-5	Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ear	
			Conducted	EN61000-4-6	Level 2, 3Vrms	
OTHERS			Magnetic Field	EN61000-4-8	Level 1, 1A/m	
			Voltage Dips and Interruptions	EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods	
	MTBF		170.5K hrs min. MIL-HDBK-217F	(25°C)		
	DIMENSION		192*178*45.5mm (L*W*H)			
	PACKING		1.23Kg; 10pcs/13.3Kg /1.38CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Peak current or peak power up to 3 seconds is provided. 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capa 4. Tolerance: includes set up tolerance, line regulation and load regulation. 5. Line regulation is measured from low line to high line at rated load. 6. Load regulation is measured from 0% to 100% rated load. 7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the s. Derating may be needed under low input voltages. Please check the derating curve for more details. 9. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system cor EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." 10. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude in the second content of the second content is the second content of the second content temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude in the second content temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude in the second content of the second content temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fanless models and of 5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude in the second content of the second cont					



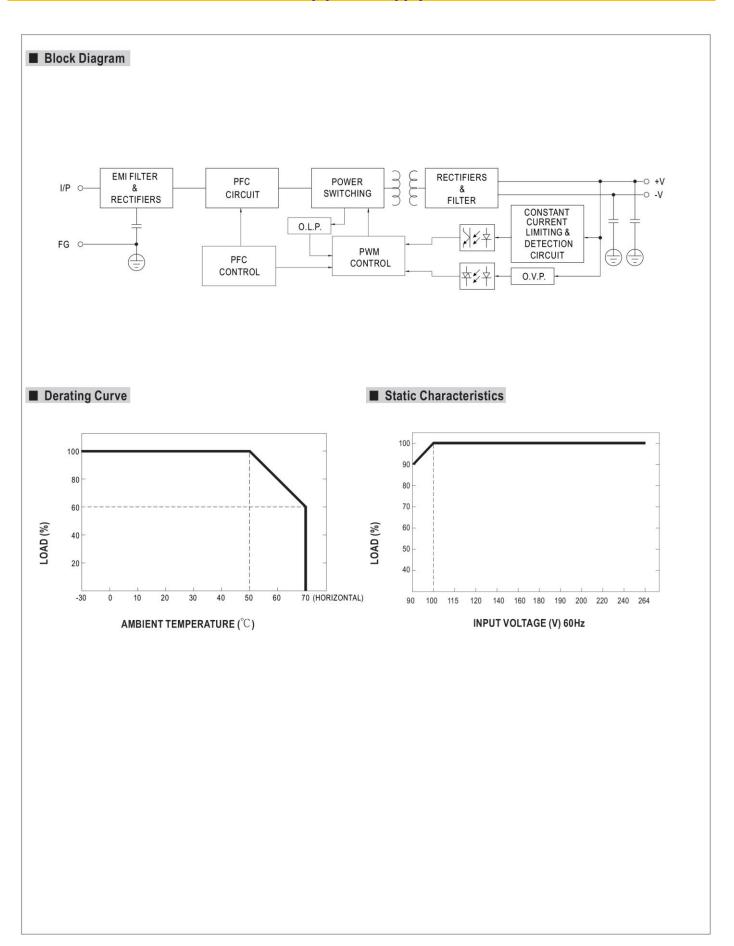
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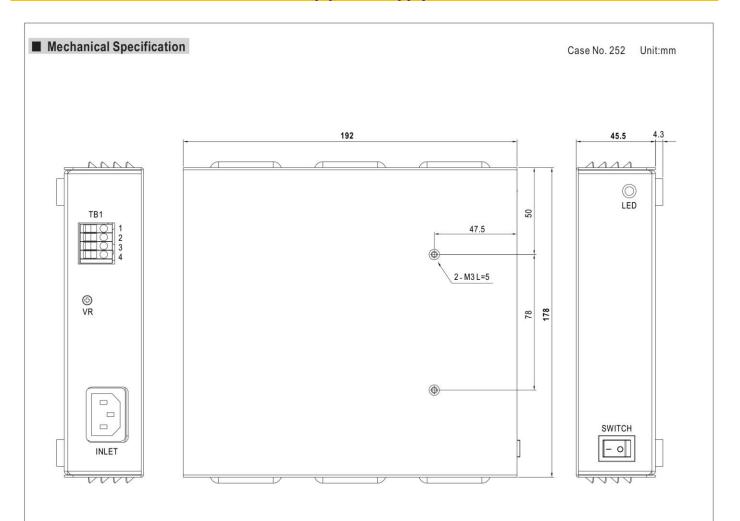
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Terminal Pin No. Assignment (TB1):

Pin No.	Assignment		
1,2	+V		
3,4	-V		