

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

### 360W Desktop power supply < ENP-360

















## ■ Features

- · Universal AC input / Full range
- · Built-in active PFC function
- Energy efficiency Level VI
- · No load power consumption < 0.5W
- 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

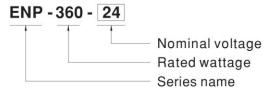
## Applications

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

## Description

ENP-360 series is a 360W 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-360-12	ENP-360-24	ENP-360-48
	DC VOLTAGE		13.8V	27.6V	55.2V
ОИТРИТ	RATED CURRENT		26A	13A	6.5A
	RATED		0~26A	0 ~ 13A	0 ~ 6.5A
	CURRENT	PEAK Note.2	32.6A	16.3A	8.2A
	WATTAGE	RATED	359W	359W	359W
		PEAK Note.2	450W	450W	453W
	RIPPLE & NOISE (max.) Note.3		150mVp-p	150mVp-p	350mVp-p
	VOLTAGE ADJ. RANGE		11.5 ~ 15V	23.5 ~ 30V	47.5 ~ 58.8V
	VOLTAGE TOLERANCE Note.4		±1.0%	±1.0%	±1.0%
			±0.5%	±0.5%	±0.5%
	LOAD REGULATION Note.6		±2.0%	±1.0%	±0.5%
			1000ms, 100ms at full load		
	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 at full load		
	EFFICIENCY (Typ.)		91%	93%	94%
INPUT	AC CURRENT (Typ.)		3.8A/115VAC 1.9A/230VAC		
	INRUSH CURRENT (Typ.)		COLD START 60A at 230VAC		
	LEAKAGE CURRENT		<3.5mA/240VAC		
	NO LOAD POWER CONSUMPTION		CONTROL OF THE CONTRO		
	SHORT CIRCUIT		Protection type: Constant current limiting, recovers automatically after fault condition is removed		
	OVERLOAD		Normally works within 110 ~ 125% rated output power for more than 3 seconds and switches to constant current limiting, with		
			auto-recovery after the peak load condition is removed		
PROTECTION			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		Shut down O/P voltage, recovers automatically after temperature goes down		
	WORKING TEMP.		-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY		20 ~ 95% RH non-condensing		
ENVIRONMENT	STORAGE TEMP., HUMIDITY		$-40 \sim +85^{\circ}\mathrm{C}$ , $10 \sim 95\%$ RH non-condensing		
	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		
SAFETY & EMC (Note 9)	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		Parameter	Standard	Test Level / Note
			Conducted	EN55032 (CISPR32) / FCC PART15 (CISPR22)	Class B
			Radiated	EN55032 (CISPR32) / FCC PART15 (CISPR22)	Class B
			Harmonic Current	EN61000-3-2	
			Voltage Flicker	EN61000-3-3	
	EMC IMMUNITY		EN55024		·
			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
			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 >95% interruptions 250 periods
OTHERS	MTBF		147.5K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION		192*178*45.5mm (L*W*H)		
	PACKING		1.5Kg; 10pcs/16Kg /1.38CUFT		
			Illy mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.		

### 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.

- Peak current or peak power up to 3 seconds is provided.
   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.
   Line regulation is measured from low line to high line at rated load.
   Load regulation is measured from 0% to 100% rated load.
   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 set up time.
   Derating may be needed under low input voltages. Please check the derating curve for more details.
   The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directive. For quidance on how to prefer the EMC derive for "EMI tegring of component newer supplies".
- 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 higher than 2000m(6500ft).

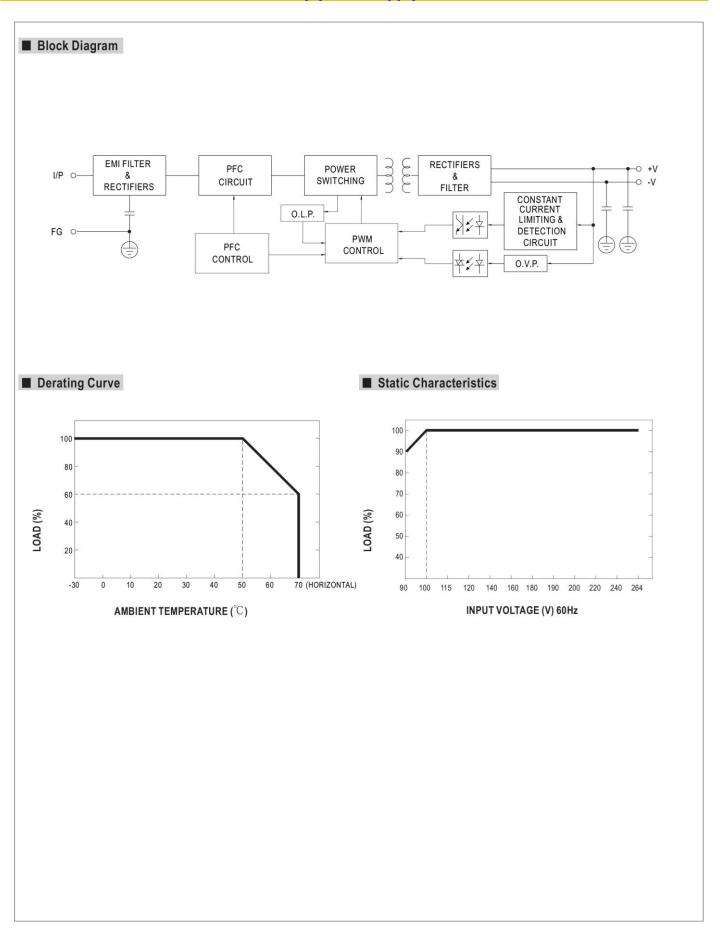


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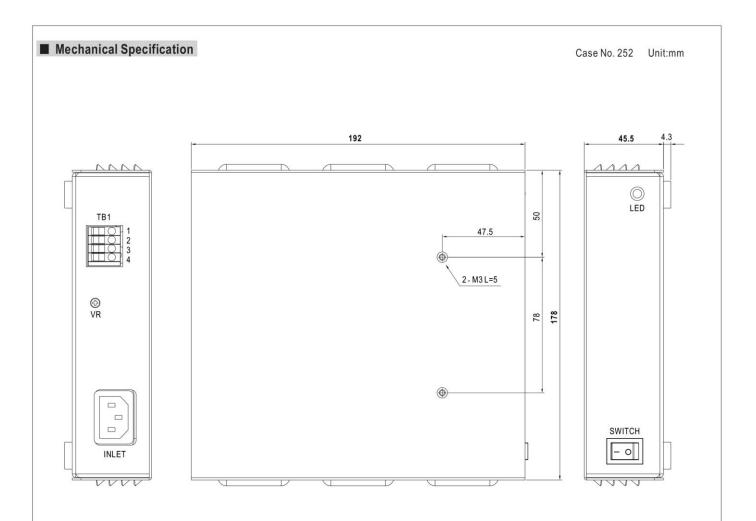




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## Terminal Pin No. Assignment (TB1):

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