



360W Level VI Desktop Type Power Supply

ENP-360 series



Front



User's Manual



Back



■ 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°C~+70°C under free air convection.

■ Model Encoding

ENP - 360 - 24

Nominal voltage
Rated wattage
Series name

SPECIFICATION

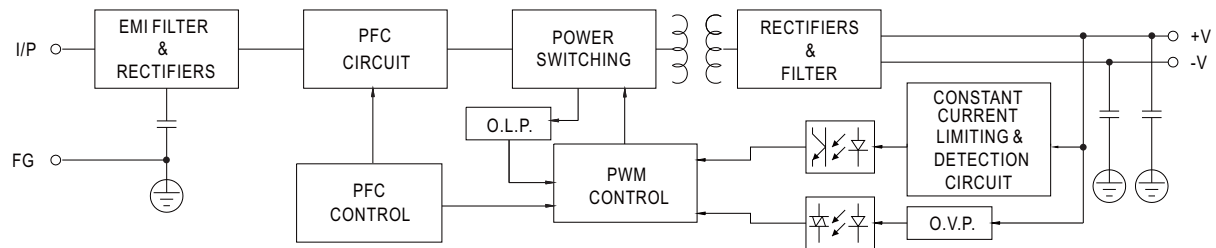
MODEL		ENP-360-12		ENP-360-24		ENP-360-48					
OUTPUT	DC VOLTAGE		13.8V		27.6V		55.2V				
	RATED CURRENT		26A		13A		6.5A				
	CURRENT	RATED	0 ~ 26A		0 ~ 13A		0 ~ 6.5A				
		PEAK Note.2	32.6A		16.3A		8.2A				
	WATTAGE	RATED	359W		359W		359W				
		PEAK Note.2	450W		450W		453W				
	RIPPLE & NOISE (max.) 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%				
	LINE REGULATION Note.5		± 0.5%		± 0.5%		± 0.5%				
	LOAD REGULATION Note.6		± 2.0%		± 1.0%		± 0.5%				
SETUP, RISE TIME Note.7		1000ms, 100ms at full load									
HOLD UP TIME (Typ.)		20ms at full load									
INPUT	VOLTAGE RANGE Note.8		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%		
	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		<0.5W								
PROTECTION	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								
			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									
ENVIRONMENT	WORKING TEMP.		-30 ~ +70℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY		20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-40 ~ +85℃, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT		±0.05%/℃ (0 ~ 50℃)								
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
SAFETY & EMC (Note 9)	SAFETY STANDARDS		IEC62368-1, UL62368-1, EAC TP TC 004, J62368-1(2020)(Only for 12V) approved; Meet BS EN/EN62368-1								
	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℃ / 70% RH								
	EMC EMISSION		Parameter			Standard			Test Level / Note		
			Conducted			BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22)			Class B		
			Radiated			BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22)			Class B		
			Harmonic Current			BS EN/EN61000-3-2			-----		
			Voltage Flicker			BS EN/EN61000-3-3			-----		
	EMC IMMUNITY		BS EN/EN55024; J55032(H29) (Only for 12V)								
			Parameter			Standard			Test Level / Note		
			ESD			BS EN/EN61000-4-2			Level 3, 8KV air ; Level 2, 4KV contact		
			Radiated			BS EN/EN61000-4-3			Level 2, 3V/m		
			EFT / Burst			BS EN/EN61000-4-4			Level 2, 1KV		
			Surge			BS EN/EN61000-4-5			Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Earth		
			Conducted			BS EN/EN61000-4-6			Level 2, 3Vrms		
			Magnetic Field			BS EN/EN61000-4-8			Level 1, 1A/m		
			Voltage Dips and Interruptions			BS EN/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℃)								
	DIMENSION		192*178*45.5mm (L*W*H)								
	PACKING		1.5Kg; 10pcs/16Kg /1.38CUFT								
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ 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 capacitor. 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 set up time. 8. 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 complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 10. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx										



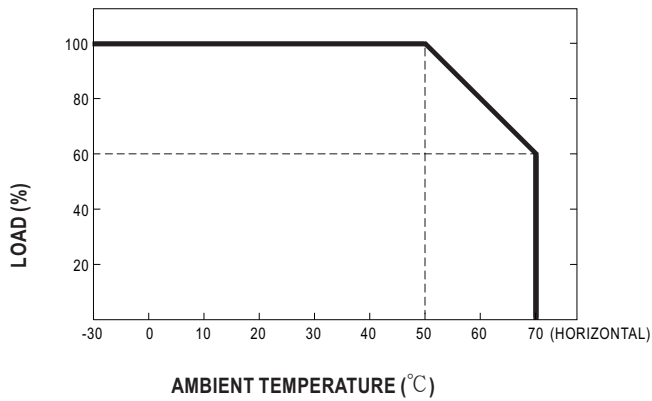
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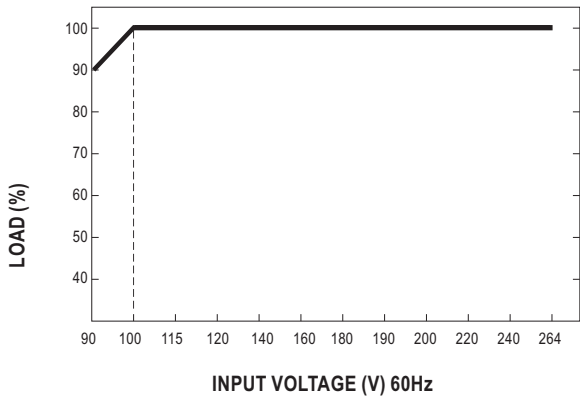
■ Block Diagram



■ Derating Curve

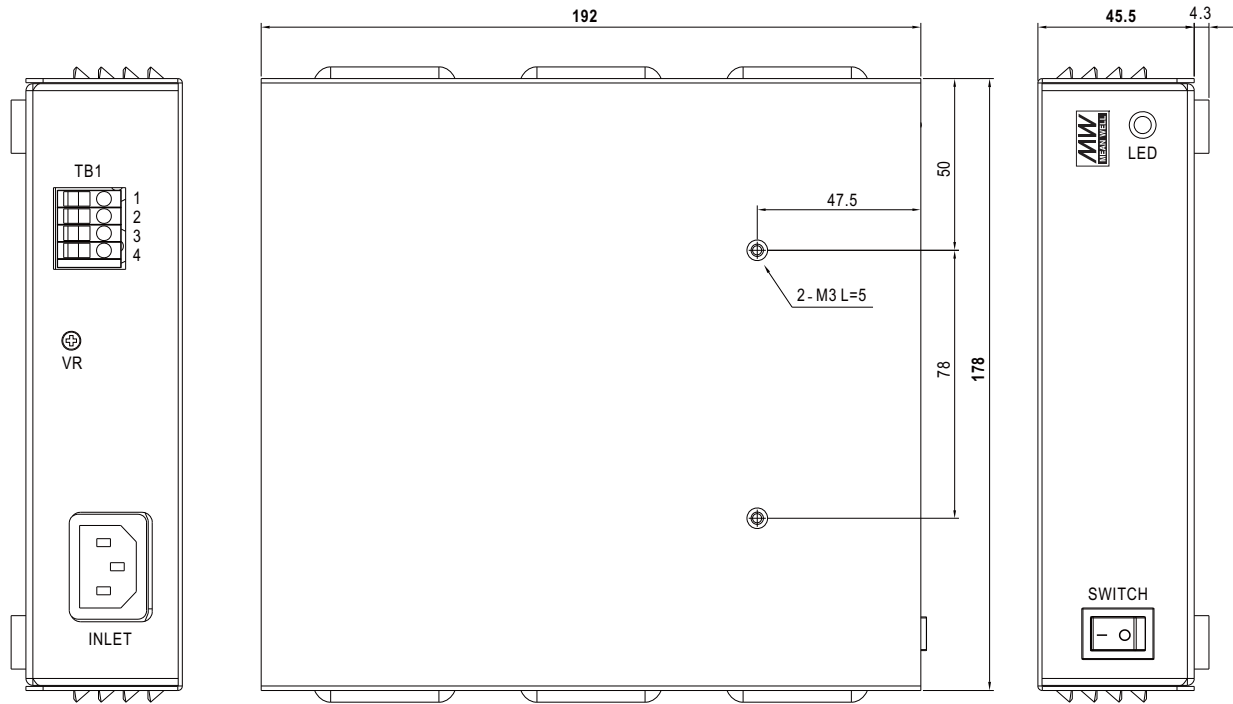


■ Static Characteristics



Mechanical Specification

Case No. 252 Unit:mm



Terminal Pin No. Assignment (TB1):

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

Note: Please use wires with a cross section of 0.5 - 4.0 mm² (12~20AWG) for connection.
Recommended wires strip length is 9 mm and screw torque is 4.0 lb-inch (0.4~0.5Nm).

Installation Manual

Please refer to : <http://www.meanwell.com/manual.html>