



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

GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

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

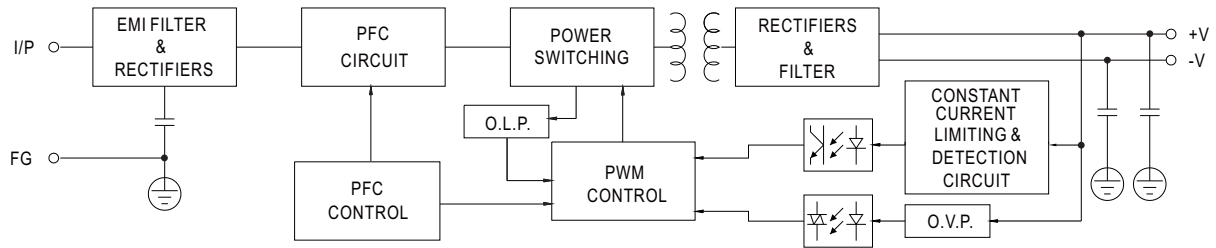
ENP - 360 - 24

Nominal voltage
Rated wattage
Series name

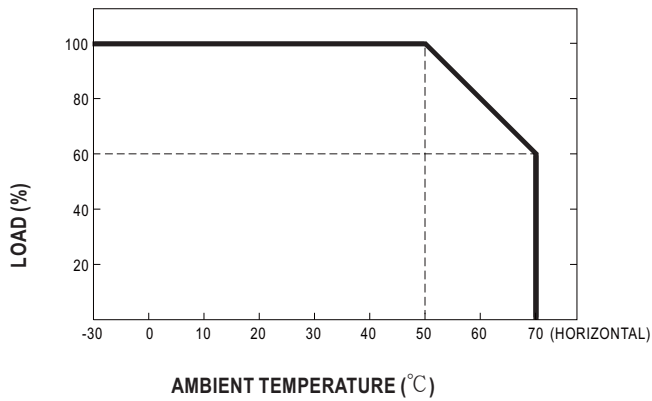
SPECIFICATION

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 ~ 57V			
	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/EN55035; 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		1199.8K hrs min. Telcordia SR-332 (Bellcore) ; 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 https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) 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								

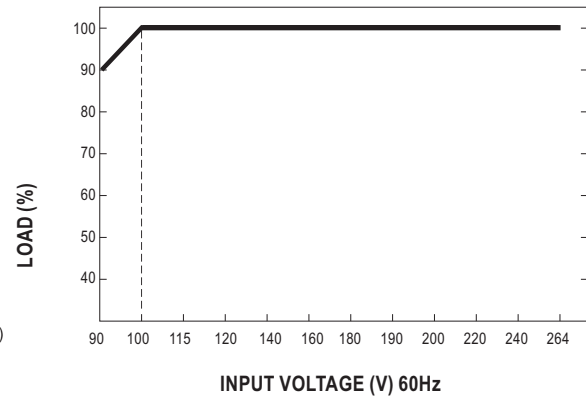
Block Diagram



Derating Curve

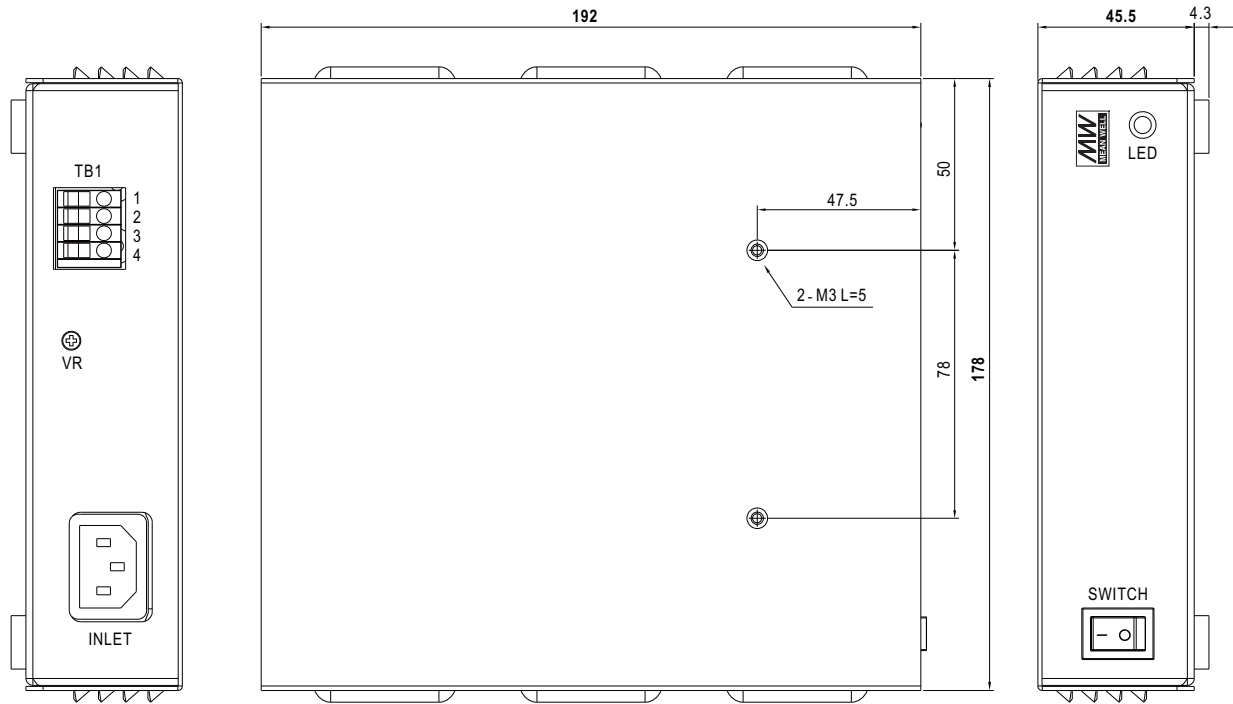


Static Characteristics



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>