



360W Level VI Desktop Type Power Supply

ENP-360 series



■ 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

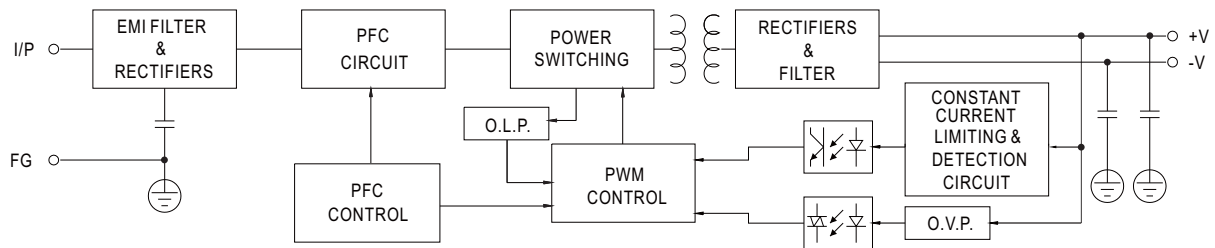
ENP - 360 - 24

Nominal voltage
Rated wattage
Series name

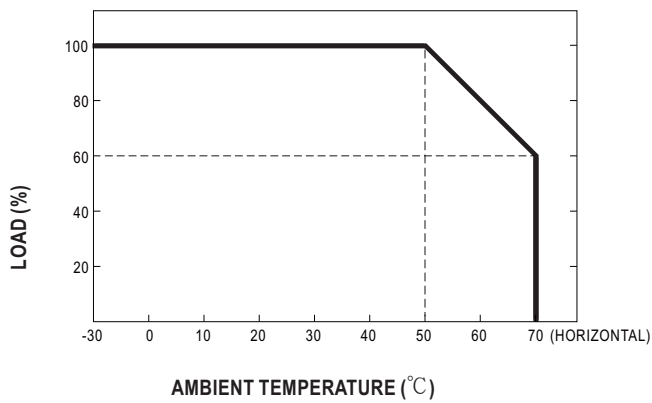
SPECIFICATION

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	Note.2		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%	
INPUT	SETUP, RISE TIME		Note.7		1000ms, 100ms at full load					
	HOLD UP TIME (Typ.)				20ms at full load					
	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					
PROTECTION	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					
	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							
ENVIRONMENT	OVER VOLTAGE				15.5 ~ 18.2V		31 ~ 36.5V		62.1 ~ 72.9V	
	OVER TEMPERATURE				Protection type : Shut down o/p voltage, re-power on to recover					
	WORKING TEMP.				Shut down O/P voltage, recovers automatically after temperature goes down					
SAFETY & EMC (Note 9)	WORKING HUMIDITY				20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY				-40 ~ +85°C, 10 ~ 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				IEC60950-1, UL60950-1 approved					
	WITHSTAND VOLTAGE				I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
OTHERS	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-Earth			
			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				
MTBF				147.5K hrs min. MIL-HDBK-217F (25°C)						
DIMENSION				192*178*45.5mm (L*W*H)						
PACKING				1.5Kg; 10pcs/16Kg /1.34CUFT						
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 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)						

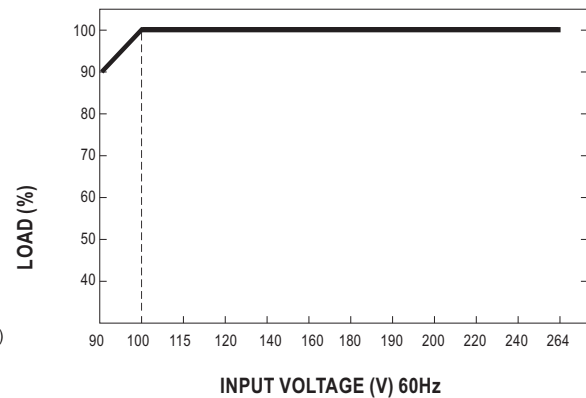
■ Block Diagram



■ Derating Curve

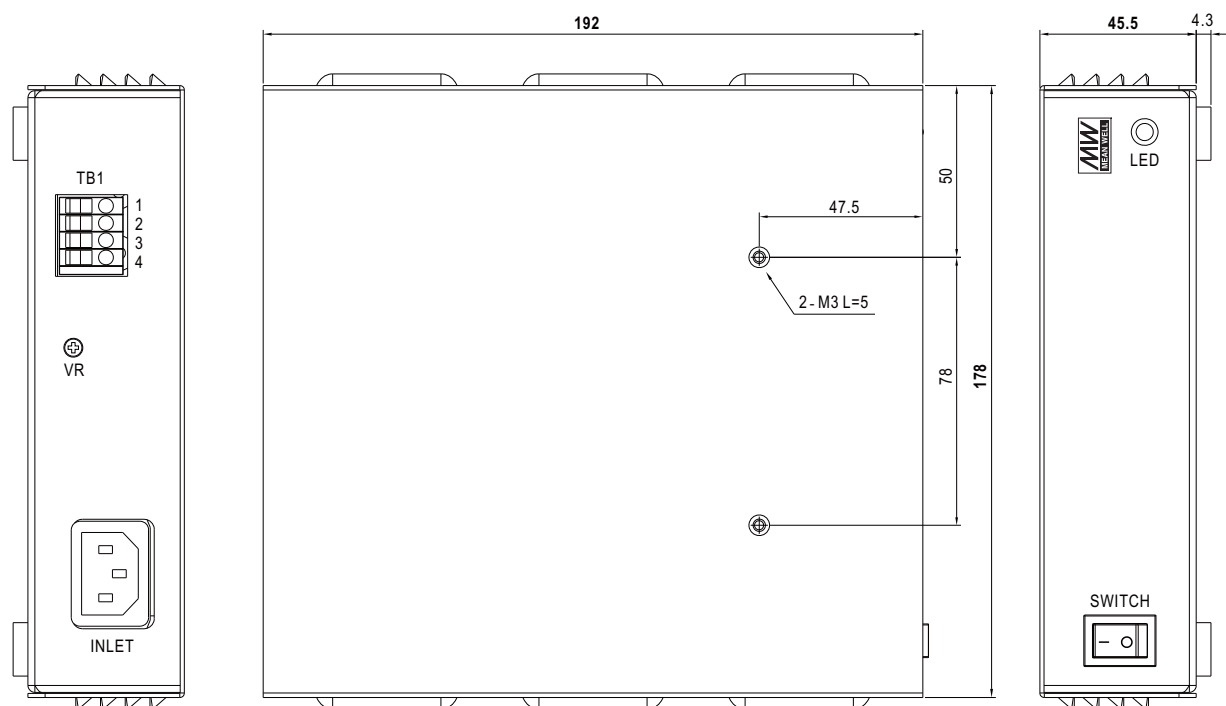


■ Static Characteristics



Mechanical Specification

Case No. 252 Unit:mm



Terminal Pin No. Assignment (TB1):

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

Installation Manual

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