MEAN WELL ENP-360 Series 360W Level VI Desktop Type Power Supply Instruction Manual

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Contents

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

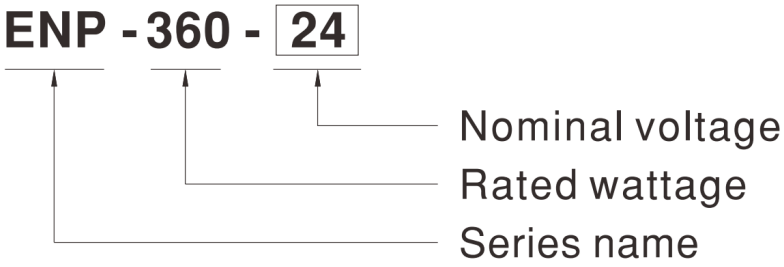
- Land mobile radio system
- Surveillance system
- TV antenna facility

GTIN CODE
MW Search httos:iiwww.meanwell.comiserviceGTIN.asox

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



MODEL			ENP-360-12	ENP-360-24	ENP-360-48
	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

OUTPUT	**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		
SAF	**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	——

<table>
<tr><td rowspan="10">ETY & EMC(Note 9)</td><td rowspan="9">EMC IMMUNITY</td><td colspan="3">BS EN/EN55024; J55032(H29) (Only for 12V)</td></tr>
<tr><td>Parameter</td><td>Standard</td><td>Test Level / Note</td></tr>
<tr><td>ESD</td><td>BS EN/EN61000-4-2</td><td>Level 3, 8KV air ; Level 2, 4KV contact</td></tr>
<tr><td>Radiated</td><td>BS EN/EN61000-4-3</td><td>Level 2, 3V/m</td></tr>
<tr><td>EFT / Burst</td><td>BS EN/EN61000-4-4</td><td>Level 2, 1KV</td></tr>
<tr><td>Surge</td><td>BS EN/EN61000-4-5</td><td>Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Earth</td></tr>
<tr><td>Conducted</td><td>BS EN/EN61000-4-6</td><td>Level 2, 3Vrms</td></tr>
<tr><td>Magnetic Field</td><td>BS EN/EN61000-4-8</td><td>Level 1, 1A/m</td></tr>
<tr><td>Voltage Dips and Interruptions</td><td>BS EN/EN61000-4-11</td><td>>95% dip 0.5 periods, 30% dip 25 periods,>95% interruptions 250 periods</td></tr>
<tr><td rowspan="3">OTHERS</td><td>MTBF</td><td>1199.8K hrs min.</td><td>Telcordia SR-332 (Bellcore) ; 147.5K hrs min.</td><td>MIL-HDBK-217F (25°C)</td></tr>
<tr><td>DIMENSION</td><td colspan="3">192*178*45.5mm (L*W*H)</td></tr>
<tr><td>PACKING</td><td colspan="3">1.5Kg; 10pcs/16Kg /1.38CUFT</td></tr>
<tr><td>NOTE</td><td colspan="4">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)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).※ Product Liability Disclaimer For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx</td></tr>
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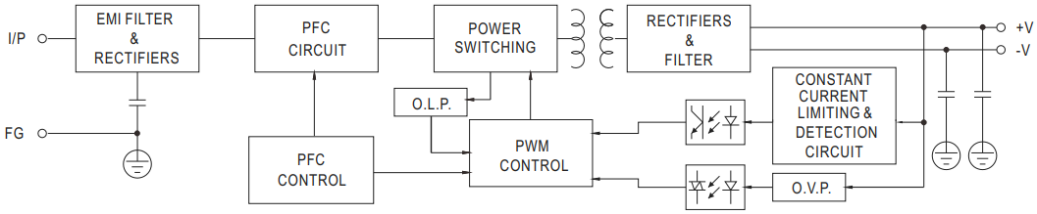
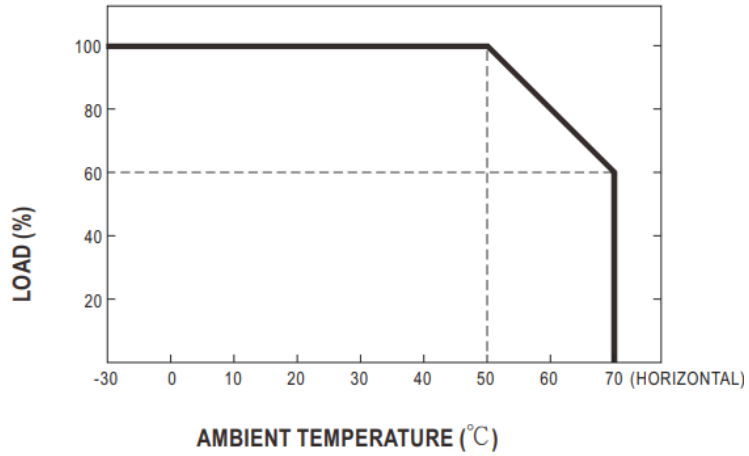
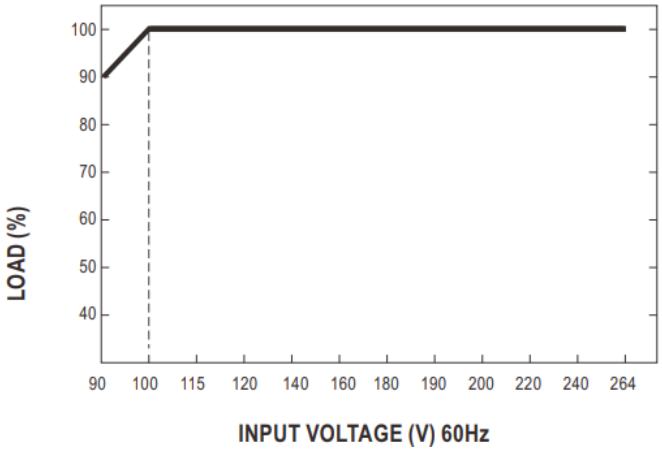
Diagram



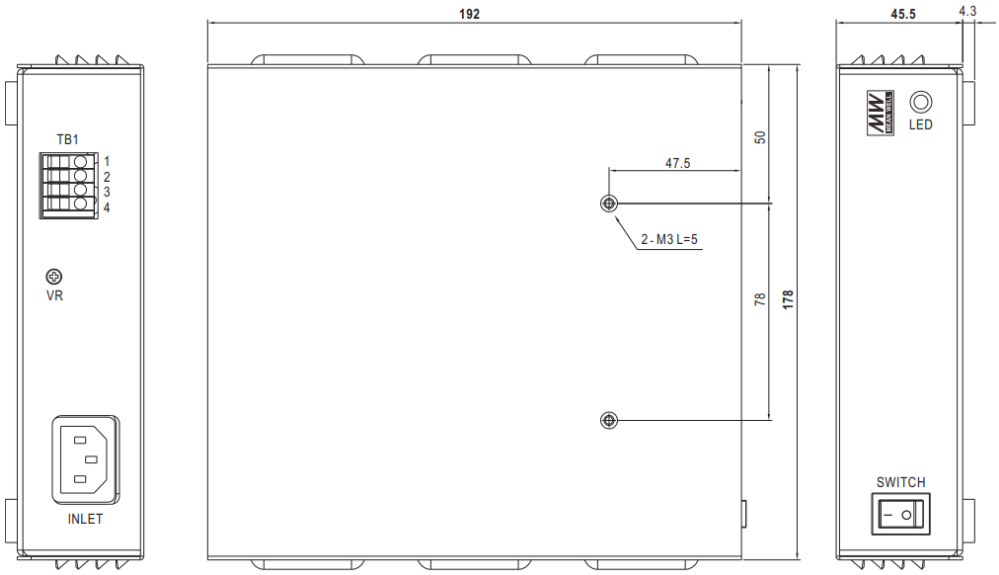
Derating curve



Static Characteristics



Mechanical Specification



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

(Only for 12V) UL62368-1 TPTC004 IEC62368-1

ECO Telecom Security

Documents / Resources

	MEAN WELL ENP-360 Series 360W Level VI Desktop Type Power Supply [pdf] Instruction Manual ENP-360 Series 360W Level Desktop Type Power Supply, ENP-360 Series, 360W Level Desktop Type Power Supply, Level Desktop Type Power Supply, Desktop Type Power Supply, Desktop Type Power Supply, Type Power Supply, Power Supply, Supply

References

- MEAN WELL Switching Power Supply Manufacturer
- Installation Manual-MEAN WELL Switching Power Supply Manufacturer