



■ Features

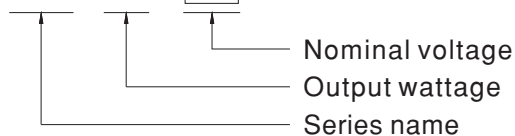
- Universal AC input / Full range
- Built-in active PFC function
- Energy efficiency Level VI
- Comply with EISA 2007/DoE, NRCan and EU ErP
- 125% peak load capability
- Fanless design, cooling by free air convection
- Protection: Short circuit / Overload / Over voltage / Over temperature
- 3 years warranty

■ Description

ENP-120 series is a 120W 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

ENP - 120 - 24



■ Applications

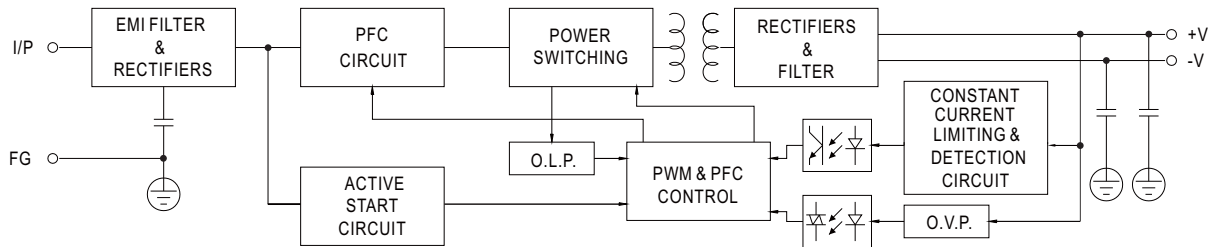
- Land mobile radio system
- Surveillance system
- TV antenna facility



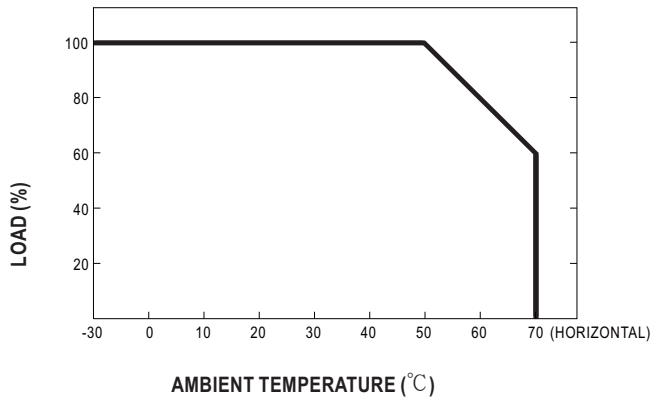
SPECIFICATION

MODEL	ENP-120-12	ENP-120-24	ENP-120-48	
OUTPUT	DC VOLTAGE	13.8V	27.6V	55.2V
	RATED CURRENT	8.7A	4.3A	2.2A
	CURRENT RANGE	0 ~ 8.7A	0 ~ 4.3A	0 ~ 2.2A
	PEAK CURRENT <small>Note.8</small>	10.9A	5.38A	2.75A
	RATED POWER	120W	119W	121W
	PEAK POWER <small>Note.8</small>	150.4W	148.5W	151.8W
	RIPPLE & NOISE (max.) <small>Note.2</small>	150mVp-p	150mVp-p	350mVp-p
	VOLTAGE ADJ. RANGE	11.5 ~ 15V	23.5 ~ 30V	47.5 ~ 58.8V
	VOLTAGE TOLERANCE <small>Note.3</small>	±1.0%	±1.0%	±1.0%
	LINE REGULATION <small>Note.4</small>	±0.5%	±0.5%	±0.5%
	LOAD REGULATION <small>Note.5</small>	±2.0%	±1.0%	±0.5%
	SETUP, RISE TIME <small>Note.6</small>	1000ms, 100ms at full load		
	HOLD UP TIME (Typ.)	20ms at full load		
INPUT	VOLTAGE RANGE <small>Note.7</small>	90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz		
	POWER FACTOR (Typ.)	PF>0.98/115VAC, PF>0.95/230VAC at full load		
	EFFICIENCY (Typ.)	89.5%	91%	91.5%
	AC CURRENT (Typ.)	1.25A/115VAC 0.63A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 65A at 230VAC		
	LEAKAGE CURRENT	<3.5mA / 240VAC		
	NO LOAD POWER CONSUMPTION	<0.15W		
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
	OVER TEMPERATURE	Shut down O/P voltage, recovers automatically after temperature goes down		
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")		
	WORKING HUMIDITY	20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH		
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)		
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes		
SAFETY & EMC (Note 9)	SAFETY STANDARDS	UL60950-1 approved		
	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	Compliance to EN55022 (CISPR22) class B, EN61000-3-2,-3, FCC PART 15 / CISPR22 class B		
OTHERS	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A		
	MTBF	257K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION	192*178*45.5mm (L*W*H)		
	PACKING	0.98Kg; 10pcs/10.8Kg/1.34CUFT		
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. Line regulation is measured from low line to high line at rated load.</p> <p>5. Load regulation is measured from 0% to 100% rated load.</p> <p>6. 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.</p> <p>7. Derating may be needed under low input voltages. Please check the derating curve for more details.</p> <p>8. Peak current or peak power up to 3 seconds is provided.</p> <p>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)</p>			

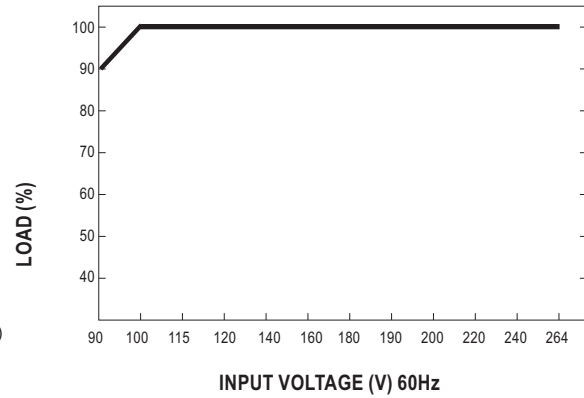
■ Block Diagram



■ Derating Curve

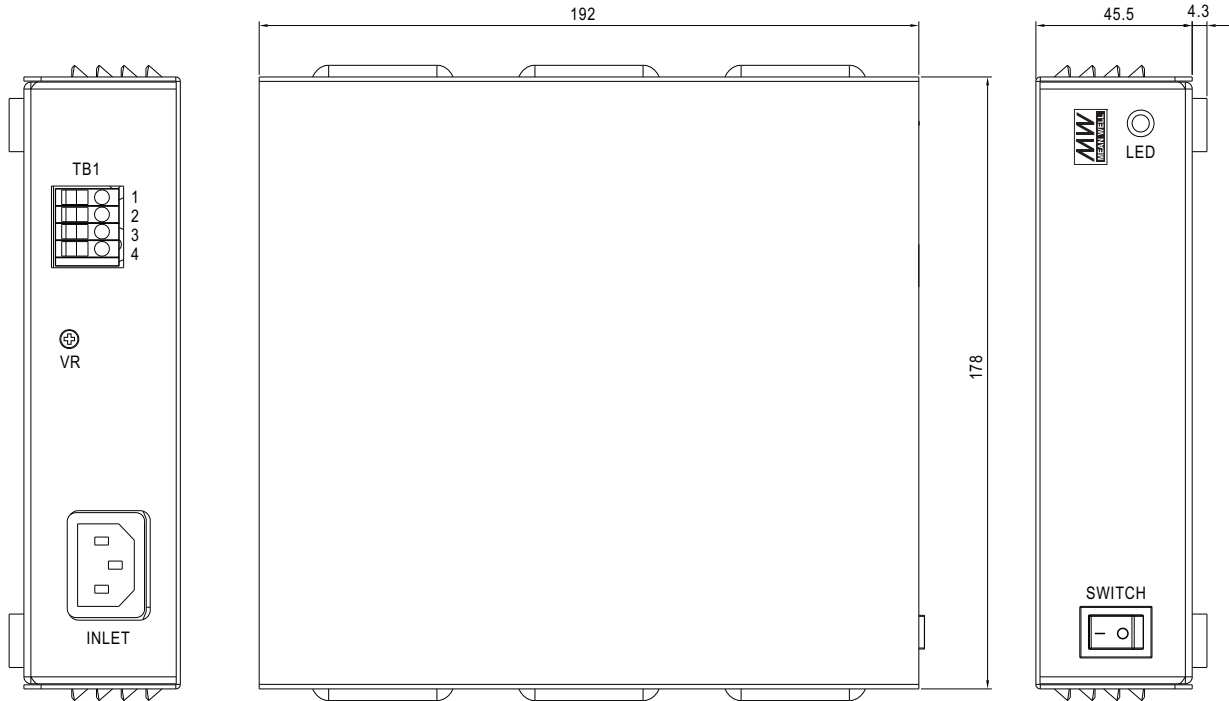


■ Static Characteristics



■ Mechanical Specification

Case No. 252A 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>