











■ Features

- · Universal AC input / Full range
- · Built-in active PFC function
- Energy efficiency Level VI
- No load power consumption <0.15W
- · 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

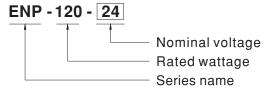
Applications

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

Description

ENP-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





SPECIFICATION

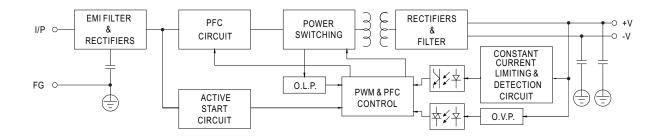
MODEL			ENP-120-12	ENP-120-24	ENP-120-48
	DC VOLTAG	E	13.8V	27.6V	55.2V
	RATED CURRENT		8.7A	4.3A	2.2A
	RATED		0~8.7A	0 ~ 4.3A	0 ~ 2.2A
	CURRENT	PEAK Note.2	10.9A	5.38A	2.75A
ОИТРИТ		RATED	120W	119W	121W
	WATTAGE	PEAK Note.2	150.4W	148.5W	151.8W
	RIPPLE & NO	DISE (max.) Note.3	150mVp-p	150mVp-p	350mVp-p
	VOLTAGE ADJ. RANGE		11.5 ~ 15V	23.5 ~ 30V	47.5 ~ 58.8V
	VOLTAGE TOLERANCE Note.4		· · ·	±1.0%	±1.0%
			±0.5%	±0.5%	±0.5%
	LOAD REGU		±2.0%	±1.0%	±0.5%
			1000ms, 100ms at full load		_ = 5.5 %
	HOLD UP TIME (Typ.)		20ms at full load		
			9 90 ~ 264VAC 127 ~ 370VDC		
	FREQUENCY RANGE		90~284VAC 127~370VDC 47~63Hz		
			PF>0.98/115VAC, PF>0.95/230VAC at full load		
	POWER FACTOR (Typ.)				04.50/
NPUT	EFFICIENCY		89.5% 1.25A/115VAC 0.63A/230VAC	91%	91.5%
	AC CURRENT (Typ.)				
	INRUSH CURRENT (Typ.)		COLD START 65A at 230VAC		
	LEAKAGE CURRENT		<3.5mA/240VAC		
	NO LOAD POWER CONSUMPTION				
	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 a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting, with a second sand switches to constant current limiting sand sand switches to constant current limiting sand sand switches to constant sand sand sand sand sand sand sand sand		
			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		
PROTECTION	OVER VOLTAGE		•		
ENVIRONMENT			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 -30 ~ +70°C (Refer to "Derating Curve")		
	WORKING TEMP.				
	WORKING HUMIDITY		20 ~ 95% RH non-condensing		
	STORAGE TEMP., HUMIDITY				
	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		IEC60950-1, UL60950-1, EAC TP TC 004 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 /		
	EMC EMISSION		Parameter	Standard	Test Level / Note
			Conducted	EN55032 (CISPR32) / FCC PART15 (CISPR22)	
			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-Ea
			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 perio >95% interruptions 250 periods
	MTBF		257K hrs min. MIL-HDBK-217F (25°C	C)	
OTHERS	DIMENSION		192*178*45.5mm (L*W*H)	,	
CITIENS			,		
	PACKING		0.98Kg; 10pcs/10.8Kg /1.34CUFT		
LOTE	1 All param	otoro NOT opociali	ly mentioned are measured at 230VAC in	with retail lead and OFTC of ambient temperare	turo.

NOTE

- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- Peak current or peak power up to 3 seconds is provided.
 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).

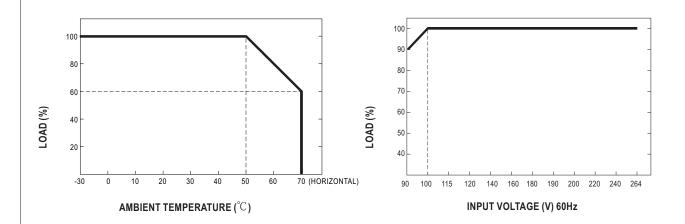


■ Block Diagram



■ Derating Curve

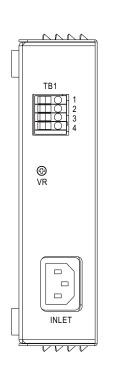
■ Static Characteristics

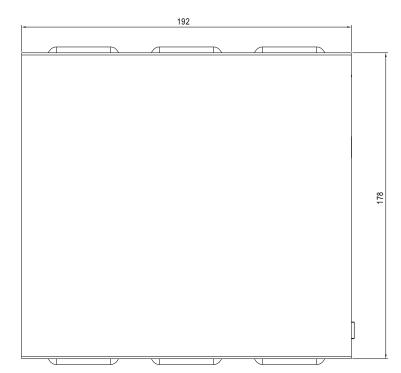


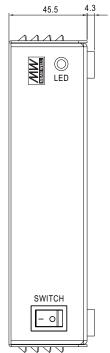


■ Mechanical Specification

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