

ENP-120 series







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

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 $-30^{\circ}C \sim +70^{\circ}C$ under free air convection.





Applications

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



SPECIFICATION

MODEL					NP-120-24	ENP-120-48
	DC VOLTAG	E		13.8V 27	7.6V	55.2V
OUTPUT	RATED CURRENT			8.7A 4.3	3A	2.2A
	CURRENT	RATED		0~8.7A 0~	~ 4.3A	0~2.2A
	CURRENT	PEAK	Note.2	10.9A 5.3	38A	2.75A
		RATED		120W 11	9W	121W
	WATTAGE	PEAK	Note.2	150.4W 14	18.5W	151.8W
	RIPPLE & NOISE (max.) Note.3		.) Note.3	150mVp-p 15	50mVp-p	350mVp-p
	VOLTAGE ADJ. RANGE			11.5 ~ 15V 23	3.5 ~ 30V	47.5 ~ 58.8V
	VOLTAGE TOLERANCE Note.4			±1.0% ±	1.0%	±1.0%
	LINE REGULATION Note.		Note.5	±0.5% ±	0.5%	±0.5%
	LOAD REGULATION Note.6		Note.6	±2.0% ±	1.0%	±0.5%
			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		,		1%	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					
	SHORT CIRCUIT			Protection type : Constant current limiting, recovers automatically after fault condition is removed		
PROTECTION	SHOKT CIKCOTT				,	
	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		
					~ 36.5V	62.1 ~ 72.9V
	OVER VOLTAGE			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		
	WORKING T		•	-30 ~ +70°C (Refer to "Derating Curve")		
ENVIRONMENT	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 STANDARDS			IC ~ 500H2, 2G Tomin. 1 cycle, domin. each along A, Y, 2 axes		
	WITHSTAND VOLTAGE			I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
	ISOLATION RESISTANCE		ICE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH Parameter Standard Test Level / Note		
					S EN/EN55032 (CISPR32) / FCC PART15 (CISPR22)	
	EMC EMISSION				, , , ,	
					S EN/EN55032 (CISPR32) / FCC PART15 (CISPR22)	
SAFETY & EMC (Note 9)					S EN/EN61000-3-2	
				ů	S EN/EN61000-3-3	
	EMC IMMUNITY			BS EN/EN55024		
					tandard	Test Level / Note
					S EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact
					S EN/EN61000-4-3	Level 2, 3V/m
					S EN/EN61000-4-4	Level 2, 1KV
				Surge BS	S EN/EN61000-4-5	Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ea
				Conducted BS	S EN/EN61000-4-6	Level 2, 3Vrms
				Magnetic Field BS	S EN/EN61000-4-8	Level 1, 1A/m
				Voltage Dips and Interruptions BS	S EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 period >95% interruptions 250 periods
OTHERS	MTBF			257K hrs min. MIL-HDBK-217F (25°C)		
	DIMENSION			192*178*45.5mm (L*W*H)		
	PACKING			0.98Kg; 10pcs/10.8Kg /1.38CUFT		
NOTE	 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. Tolerance : includes set up tolerance, line regulation and load regulation. Line regulation is measured from low line to high line at rated load. Load regulation is measured from 0% to 100% rated load. Load regulation is measured at cold first start. Turning ON/OFF the power supply very quickly may lead to increase of the set up time. Derating may be needed under low input voltages. Please check the derating curve for more details. 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) 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 					



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