

1F., No.40, Juren Ln., Sec. 2, Sanmin Rd., Banciao Dist., New Taipei City

22069, Taiwan (R.O.C.)

Phone: 886-2-2957 5580 Fax: 886-2-2957 7473

180W Desktop power supply < ENP-180

















■ 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

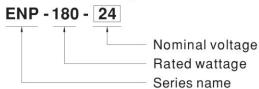
Applications

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

Description

ENP-180 series is a 180W 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





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SPECIFICATION

MODEL			ENP-180-12	ENP-180-24	ENP-180-48	
	DC VOLTAGE		13.8V	27.6V	55.2V	
ОИТРИТ	RATED CURRENT		13A	6.5A	3.3A	
		RATED	0 ~ 13A	0 ~ 6.5A	0 ~ 3.3A	
	CURRENT	PEAK Note.2	16.3A	8.1A	4.1A	
	WATTAGE	RATED	179W	179W	182W	
		PEAK Note.2	225W	224W	226W	
	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 REGUL	ATION Note.5	±0.5%	±0.5%	±0.5%	
	LOAD REGU	LATION 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%	93.5%	94%	
	AC CURRENT (Typ.)		1.9A/115VAC 0.95A/230VAC			
	INRUSH CURRENT (Typ.)		COLD START 70A at 230VAC			
	LEAKAGE CURRENT		<3.5mA/240VAC			
	NO LOAD POWER CONSUMPTION		A DIVINOUS MENT CONTROL OF THE CONTR			
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, wit auto-recovery after the peak load condition is removed			
	OVER VOLTAGE		Constant current limiting, if >125% ra	ated power, with auto-recovery after the overloa 31 ~ 36.5V	d condition is removed 62.1 ~ 72.9V	
			Protection type : Shut down o/p volta	ge, re-power on to recover		
	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		S Date Service State Sta			
	TEMP. COEFFICIENT		$\pm 0.05\%$ /°C (0 ~ 50°C)			
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
SAFETY & EMC (Note 9)	SAFETY STANDARDS		IEC62368-1, UL62368-1, 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 / 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-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	
OTHERS	MTBF		170.6K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION		192*178*45.5mm (L*W*H)			
	PACKING		1.15Kg; 10pcs/12.5Kg /1.34CUFT			
			lly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.			

NOTE

- 1. All parameters NOT specially mentioned are measured at 200AC 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.

- 8. Derating may be needed under low input voltages. Please check the derating curve for more details.

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- 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."
 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).

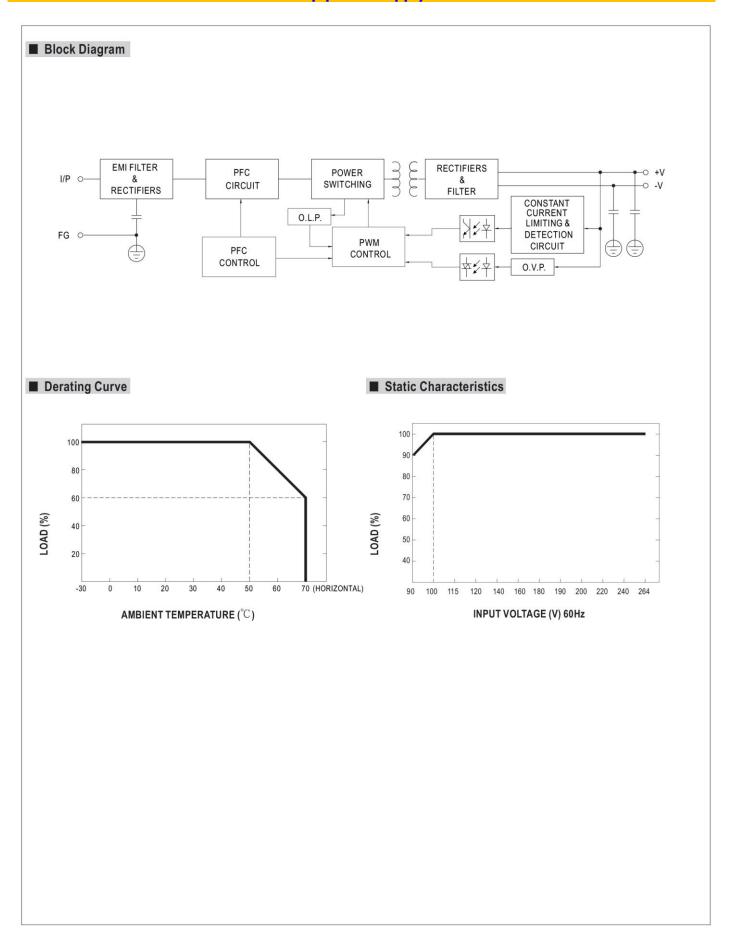


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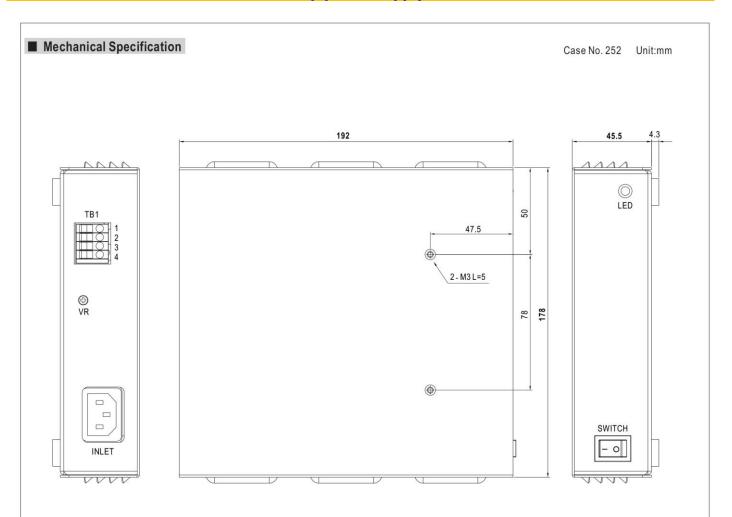


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Terminal Pin No. Assignment (TB1):

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