



















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

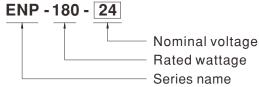
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ 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°C ~+70°C under free air convection.

Model Encoding





SPECIFICATION

		ENP-180-12	ENP-180-24	ENP-180-48	
DC VOLTAGE		13.8V	27.6V	55.2V	
RATED CURI	RENT	13A	6.5A	3.3A	
		·	1 1	0 ~ 3.3A	
CURRENT				4.1A	
				182W	
WATTAGE		·		226W	
		·		350mVp-p	
,				47.5 ~ 58.8V	
				±1.0%	
				±0.5%	
				±0.5%	
			± 1.0 /6		
-			Illand		
		,		040/	
		1 11	¥3.5%	94%	
() . ,					
OVERLOAD		Protection type: Constant current limiting, recovers automatically after fault condition is removed			
		Normally works within 110 \sim 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		d condition is removed	
OVER VOLTAGE				62.1 ~ 72.9V	
OVER TEMP					
	-	<u> </u>			
	FICIENT	, ,			
VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
SAFETY STANDARDS WITHSTAND VOLTAGE		IEC62368-1, UL62368-1, EAC TP TC 004 approved; Meet BS EN/EN62368-1			
		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 / 50	00VDC / 25°C / 70% RH		
	Parameter	Standard	Test Level / Note		
	Conducted				
EMC EMISSI	MISSION	Radiated	BS EN/EN55032 (CISPR32) / FCC PART15 (CISPR22)	Class B	
		Harmonic Current	BS EN/EN61000-3-2		
		Voltage Flicker	BS EN/EN61000-3-3		
	BS EN/EN55035				
		Parameter	Standard	Test Level / Note	
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV contact	
		Radiated	BS EN/EN61000-4-3	Level 2, 3V/m	
EMC IMMUNITY	EFT / Burst	BS EN/EN61000-4-4	Level 2, 1KV		
		Surge	BS EN/EN61000-4-5	Level 2, 1KV/Line-Line,Level 3, 2KV/Line-Ear	
		Conducted	BS EN/EN61000-4-6	Level 2, 3Vrms	
			1	Laural A. A.A./or	
		Magnetic Field	BS EN/EN61000-4-8	Level 1, 1A/m	
		Magnetic Field Voltage Dips and Interruptions	BS EN/EN61000-4-8 BS EN/EN61000-4-11		
MTBF		Voltage Dips and Interruptions		>95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods	
MTBF DIMENSION		Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods >95% interruptions 250 periods	
	RATED CURRENT CURRENT WATTAGE RIPPLE & NO VOLTAGE AD VOLTAGE TO LINE REGUL LOAD REGUL SETUP, RISE HOLD UP TIN VOLTAGE RA FREQUENCY POWER FAC EFFICIENCY AC CURREN INRUSH CUR LEAKAGE CI NO LOAD POW SHORT CIRC OVERLOAD OVER VOLTA OVER TEMPI WORKING H STORAGE TI TEMP. COEF VIBRATION SAFETY STA WITHSTAND ISOLATION F	WATTAGE WATTAGE RATED PEAK Note.2 RIPPLE & NOISE (max.) Note.3 VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE Note.4 LINE REGULATION Note.5 LOAD REGULATION Note.6 SETUP, RISE TIME Note.7 HOLD UP TIME (Typ.) VOLTAGE RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT NO LOAD POWER CONSUMPTION SHORT CIRCUIT OVER VOLTAGE OVER TEMPERATURE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE	DC VOLTAGE RATED CURRENT 13A	DC VOLTAGE 13.8V 27.6V	

NOTE

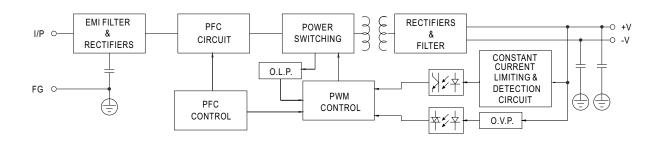
- 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
- 2. Peak current or peak power up to 3 seconds is provided.
 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel 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



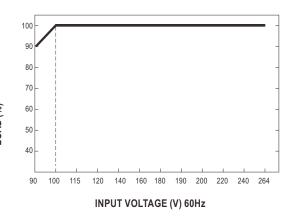
■ Block Diagram



■ Derating Curve

100 80 60 40 20 -30 0 10 20 30 40 50 60 70 (HORIZONTAL) AMBIENT TEMPERATURE (°C)

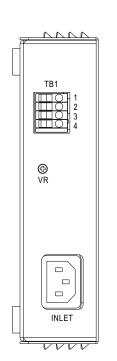
■ Static Characteristics

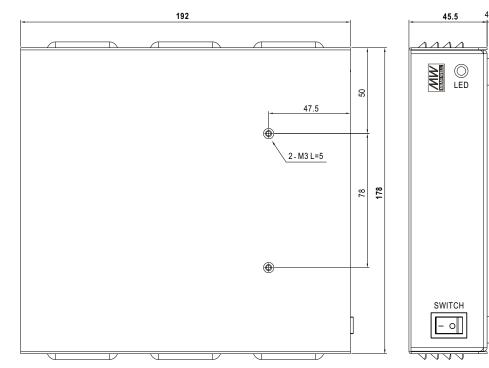




■ Mechanical Specification

Case No. 252 Unit:mm





Terminal Pin No. Assignment (TB1):

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

Note: Please use wires with a cross section of $0.5 - 4.0 \text{ mm}^2$ ($12 \sim 20 \text{AWG}$) for connection. Recommended wires strip length is 9 mm and screw torque is 4.0 lb-inch ($0.4 \sim 0.5 \text{Nm}$).

■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html

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