

MIDNITE SOLAR'S NEW

DIY Series

MPPT INVERTER/CHARGERS

MidNite Solar's new DIY Series Inverter Charger with MPPT represents a versatile line of inverters/chargers at a great price!

MN3024DIY and MN5048DIY!

The MN3024DIY is a 3,000W, 24VDC inverter-charger that includes a built-in MPPT charge controller. The MN5048DIY is a 5,000W, 48VDC inverter-charger with built-in MPPT charge controller. Offering a simple, all-in-one installation and flexible programming, the new MidNite Solar Inverter/charger DIY Series will charge virtually any battery chemistry.

With excellent surge capability, the DIY Series will start the most demanding 120VAC loads. Perfect for your off-grid cabin or house, the DIY Series is designed to be affordable, dependable, and supported by the industry's best customer service personnel at MidNite Solar.



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APPLICATIONS:

Off grid - battery and PV or generator required
 Grid connected for backup - battery required

SPECIFICATIONS	MN3024DIY	MN5048DIY
System Voltage	24VDC	48VDC
AC		
Max Rated Power	3000W	5000W
Surge Power	4500W	7000W
Power Factor	1	1
Input Voltage	120VAC	120VAC
Input Voltage Range	90-140VAC +- 2% Adjustable	90-140VAC +- 2% Adjustable
Input/Output Frequency	60Hz	60Hz
Output Voltage	120VAC +- 5%	120VAC +- 5%
Output Waveform	Pure Sine Wave	Pure Sine Wave
Peak Efficiency	>95%	>95%
Max AC Charging Current	40A	40A
Internal Bypass Current	Up to 40A	Up to 63A
Conversion (Bypass and Invert)	10ms	10ms
SOLAR CHARGER		
Max PV Input/Output Power	1400W	5000W
Max PV Charging Current	60A	80A
Max PV Input Voltage	100V	500V
Algorithm	MPPT	MPPT
MPPT Voltage Range	30 -95V	120 - 450V
BATTERY CHARGER		
Battery Type	Lead Acid or Lithium	Lead Acid or Lithium
Max AC Battery Charging Current:	40A	40A
Max PV Battery Charging Current:	60A	80A
Battery Voltage Range	20 - 33V DC	40 - 60V DC
Nominal Battery Voltage	24V	48V
ENVIRONMENTAL/MECHANICAL/WARRANTY		
Size	14.90"L x 11.03"W x 4.06"H	16.93"L x 13.31"W x 4.96"H
Operating Temperature	5°F ~ 131°F / -15°C ~ 55°C	5°F ~ 131°F / -15°C ~ 55°C
Storage Temperature	-13°F ~ 140°F / -25°C ~ 60°C	-13°F ~ 140°F / -25°C ~ 60°C
Humidity	5% ~ 95% (3 Layer Paint Protection)	5% ~ 95% (3 Layer Paint Protection)
Warranty	1 Year	1 Year

Manufactured for MidNite Solar in China.

