

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 MN3548DIY!*

The MN3024DIY is a 3,000W, 24VDC inverter-charger that includes a built-in MPPT charge controller. The MN3548DIY is a 3,500W, 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.



[www.midnitesolar.com](http://www.midnitesolar.com)

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**DIY Series**  
 MPPT INVERTER/CHARGERS



**APPLICATIONS:**

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

SPECIFICATIONS	MN3024DIY	MN3548DIY
System Voltage	24VDC	48VDC
<b>AC</b>		
Max Rated Power	3000W	3500W
Surge Power	6000W	7000W
Power Factor	1	1
Input Voltage	120VAC	120VAC
Input Voltage Range	85-140VAC +- 2% Adjustable	85-140VAC +- 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	80A	30A
Internal Bypass Current	Up to 30A	Up to 40A
Conversion (Bypass and Invert)	10ms	10ms
<b>SOLAR CHARGER</b>		
Max PV Input/Output Power	1700W	4400W
Max PV Charging Current	140A	110A
Max PV Input Voltage	100V	150V
Algorithm	MPPT	MPPT
MPPT Voltage Range	30 - 100V	60 - 115V
<b>BATTERY CHARGER</b>		
Battery Type	Lead Acid or Lithium	Lead Acid or Lithium
Max Battery Charging Current	80A (Adjustable)	120A (Adjustable)
Battery Voltage Range	20 - 33V DC	40 - 60V DC
Nominal Battery Voltage	24V	48V
<b>ENVIRONMENTAL/MECHANICAL/WARRANTY</b>		
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

