

MIDNITE SOLAR'S NEW

# DIY Series

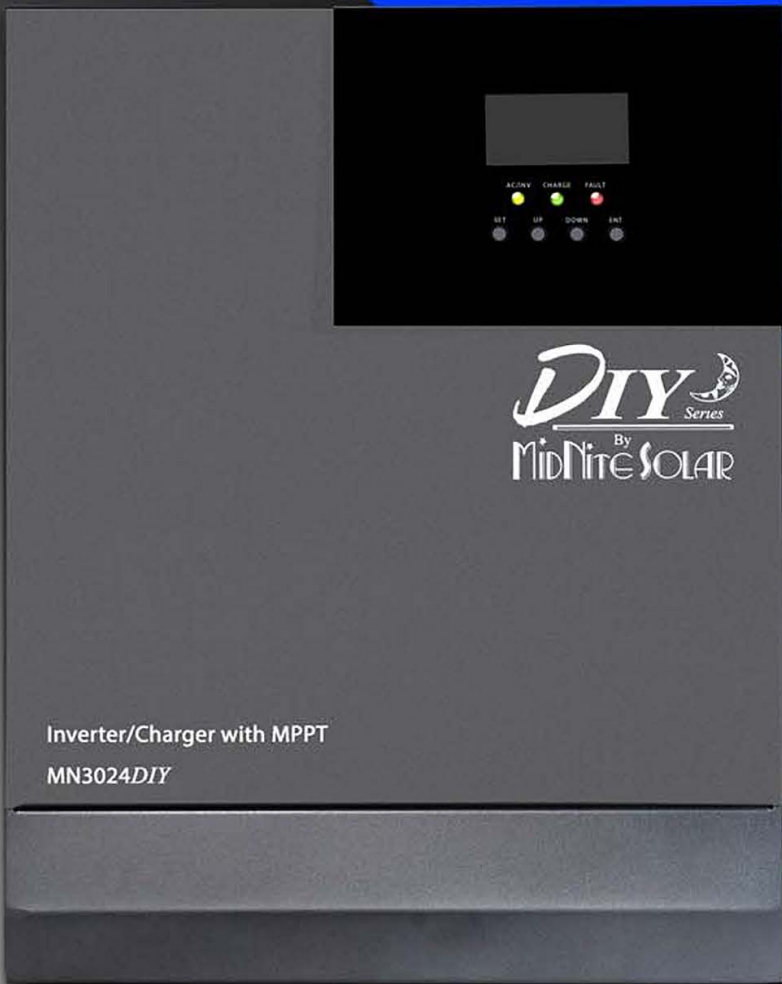
## MPPT INVERTER/CHARGERS

*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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## MPPT INVERTER/CHARGERS



### APPLICATIONS:

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

SPECIFICATIONS	MN3024DIY	MN5048DIY
<b>System Voltage</b>	<b>24VDC</b>	<b>48VDC</b>
<b>AC</b>		
<b>Max Rated Power</b>	<b>3000W</b>	<b>5000W</b>
<b>Surge Power</b>	<b>4500W</b>	<b>7000W</b>
<b>Power Factor</b>	<b>1</b>	<b>1</b>
<b>Input Voltage</b>	<b>120VAC</b>	<b>120VAC</b>
<b>Input Voltage Range</b>	<b>90-140VAC +- 2% Adjustable</b>	<b>90-140VAC +- 2% Adjustable</b>
<b>Input/Output Frequency</b>	<b>60Hz</b>	<b>60Hz</b>
<b>Output Voltage</b>	<b>120VAC+-5%</b>	<b>120VAC+-5%</b>
<b>Output Waveform</b>	<b>Pure Sine Wave</b>	<b>Pure Sine Wave</b>
<b>Peak Efficiency</b>	<b>&gt;95%</b>	<b>&gt;95%</b>
<b>Max AC Charging Current</b>	<b>40A</b>	<b>40A</b>
<b>Internal Bypass Current</b>	<b>Up to 40A</b>	<b>Up to 63A</b>
<b>Conversion (Bypass and Invert)</b>	<b>10ms</b>	<b>10ms</b>
<b>SOLAR CHARGER</b>		
<b>Max PV Input/Output Power</b>	<b>1400W</b>	<b>5000W</b>
<b>Max PV Charging Current</b>	<b>60A</b>	<b>80A</b>
<b>Max PV Input Voltage</b>	<b>100V</b>	<b>500V</b>
<b>Algorithm</b>	<b>MPPT</b>	<b>MPPT</b>
<b>MPPT Voltage Range</b>	<b>30 - 95V</b>	<b>120 - 450V</b>
<b>BATTERY CHARGER</b>		
<b>Battery Type</b>	<b>Lead Acid or Lithium</b>	<b>Lead Acid or Lithium</b>
<b>Max AC Battery Charging Current:</b>	<b>40A</b>	<b>40A</b>
<b>Max PV Battery Charging Current:</b>	<b>60A</b>	<b>80A</b>
<b>Battery Voltage Range</b>	<b>20-33VDC</b>	<b>40-80VDC</b>
<b>Nominal Battery Voltage</b>	<b>24V</b>	<b>48V</b>
<b>ENVIRONMENTAL/MECHANICAL/WARRANTY</b>		
<b>Size</b>	<b>14.90"L x 11.03"W x 4.06"H</b>	<b>16.93"L x 13.31"W x 4.96"H</b>
<b>Operating Temperature</b>	<b>SJF- 131°F/-15°C - 55°C</b>	<b>SJF- 131°F/-15°C - 55°C</b>
<b>Storage Temperature</b>	<b>-130°F - 140°F/-25°C - 61°C</b>	<b>-130°F - 140°F/-25°C - 61°C</b>
<b>Humidity</b>	<b>5% - 95% (3 Layer Paint Protection)</b>	<b>5% - 95% (3 Layer Paint Protection)</b>
<b>Warranty</b>	<b>1 Year</b>	<b>1 Year</b>

Manufactured for MidNite Solar in China.

