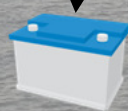


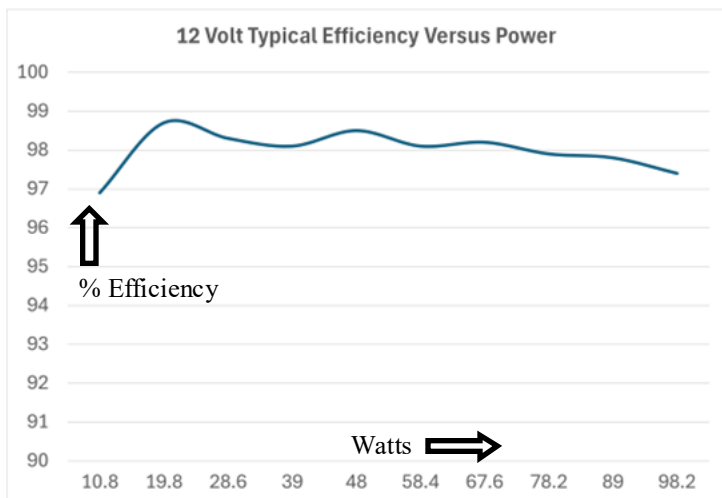
# Helios 12 / 24 Volt MPPT 7 Amp 100 / 200 Watts STC Solar Charge Controller

## Get Every Last Watt of Power



SLA, AGM,  
Deep Cycle  
12 or 24 volts  
or  
LiFePO<sub>4</sub>  
4 / 8 Cell  
Batteries

- Best in class performance > 97.5% Power Transfer
- Perfect match to 100 Watt solar panels on 12 Volts
- 12 or 24 Volt battery - automatic detection
- FAST Maximum Power Point Tracking (MPPT) >99.9%
- Radio Friendly — Very low RF noise FCC Class B
- Up to 2x MORE power than “PWM” controllers
- Short Circuit, Reverse Polarity, and Thermal Protection
- Very low night battery drain under 0.001 Amps
- Rugged 3D printed enclosure, lightweight 2.8 ounces
- Designed to meet UL, CE, and CSA safety standards
- 5 Year Limited Warranty — **Made in USA**



## Product Specifications Version 3.xx Blue = 12 Volt Green = 24 Volt

- Output Voltage **14.4 / 28.8** Volts
- Re-Charge Voltage **13.5 / 27.0** Volts
- Output Current **7** Amps Max
- Maximum Output **100 / 200** Watts STC
- Maximum Input **50** Volts
- Operating Range **-40°F to 120°F**
- Thermal Shutdown **180° F** internal temp
- Thermal Fold-back **175° F** internal temp
- Power Stage **Variable Frequency**
- Spread Spectrum **EMI / RFI reduction**
- MPPT Range **12V 15 - 50 Volts**
- MPPT Range **24V 30 - 50 Volts**
- Night Battery Draw **0.00085 Amps @ 12V**  
**0.0012 Amps @ 24V**
- Up to **100 / 200** Watt STC Solar Panel rating
- Wire screw terminal connections #14 AWG
- High performance 64 MHz CPU
- Short Circuit, Reverse Polarity, and Thermal Overload Protected
- Automatic detection **12** or **24** Volt Output
- Designed and made in USA
- 3.4 x 2.5 x 1.3 inches, less than 3 ounces

Specifications subject to change without notice

## LCD Scrolling Display Information

<b>b A t</b> Battery Voltage	<b>P - P</b> Peak Power in Watts
<b>P A n</b> Panel Voltage	<b>A - H</b> Amp Hours Today
<b>A</b> Output Amps	<b>b - t</b> Board Temperature (F)
<b>O u t</b> Output Watts	<b>b 1 2</b> Battery Detect <b>b 2 4</b>

Past 7 days Amp-hours and  
MAX power displayed at night

Contact us at: [DIYSolarforU@gmail.com](mailto:DIYSolarforU@gmail.com)  
[www.DIYSolarForU.com](http://www.DIYSolarForU.com)

