

# Apollo 12 / 24 Volt MPPT 16 Amp 280 / 560 Watts STC Solar Charge Controller

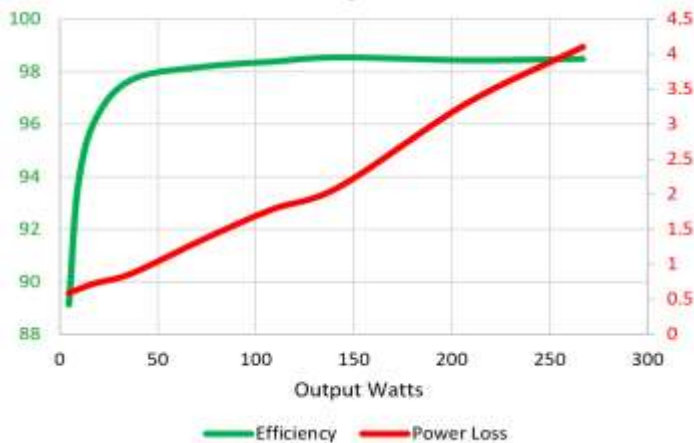
## Get Every Last Watt of Power



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

- Panel power transfer over 99% at 300 Watts and 24 Volt
- 12 or 24 Volt Battery - Automatic Detection
- Easy connection — Only 2 wires in and 2 wires out
- 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
- Allows for unlimited paralleled units for more power
- Get maximum power from partial shaded panels
- Very low night battery drain
- Designed to meet UL, CE, and CSA safety standards
- **5 Year Limited Warranty — Made in USA**

### Typical Power Conversion Performance at 12 Volts



### 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 **16** Amps Max
- Maximum Output **230 / 460** Watts
- Maximum Input **50** Volts
- Operating Range **4°**F to **140°**F
- Thermal Shutdown **170°** F internal temp
- Thermal Fold-back **165°** F internal temp
- Power Stage **148** KHz nominal
- 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 **280 / 560** Watt STC Solar Panel rating
- Wire screw terminal connections #12 AWG
- 32 MHz CPU for precise power control
- Short Circuit, Reverse Polarity, and Thermal Overload Protected
- Automatic detection **12** or **24** Volt Output
- Designed and made in USA
- **5.8 x 3.7 x 1.6** inches and under **1** pound

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

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