

# APOLLO Dual Voltage 12 / 24 Volt 16 Amp 230 / 460 Watt Output Charge Controller



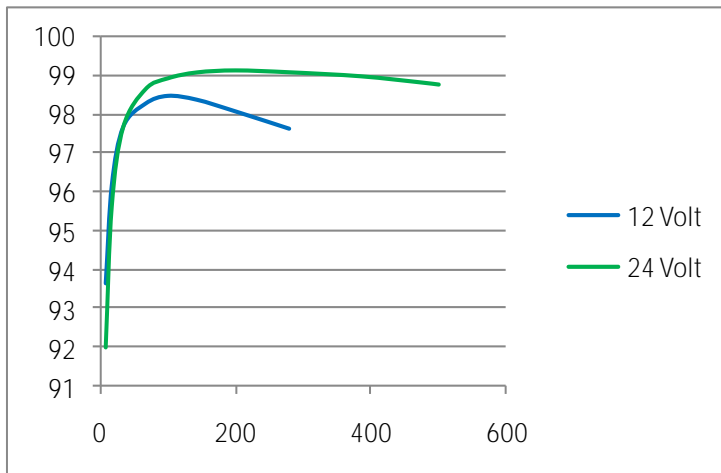
SLA, AGM, Deep Cycle 12 or 24 volts or LiFePO<sub>4</sub> 4 / 8 Cell Batteries



## Get Every Last Watt of Power

- Panel Power Transfer over 99% @ 300 Watts 24 Volt
- 12 or 24 Volt Systems—Automatic Detection
- Easy Connection only 2 wires in and 2 wires out
- FAST True MPPT Power Tracking >99%
- Radio Friendly—Meets FCC Class B Emissions
- Up to 2x MORE Power versus PWM Controllers
- Parallel Additional units for more power—no limit
- Get Maximum Power from Partial Shaded Panels
- Very Low Night Battery Drain
- Designed to meet UL, CE, and CSA Standards
- 2 Year Limited Warranty — **Made in USA**

Typical Power Conversion Performance vs. Output



## Product Specifications Version 2.10

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 to 140F (-15 to 60C)**
- Thermal Shutdown **170 F** internal temp
- Thermal Fold-back **165 F** internal temp
- Power Stage PWM **125 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 Optimal Power Control
- Short Circuit, Reverse Polarity, and Thermal Overload Protected
- Automatic detection **12** or **24** Volt Output
- Designed and Made in USA

## LCD Scrolling Display Information

<b>b A t</b> Battery Voltage	<b>P - P</b> Peak Power in Watts
<b>P A n</b> Solar 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)

