

# THE CLASSIC150-RCM

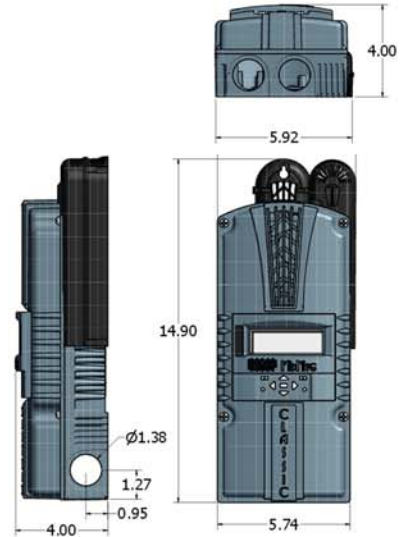
## MPPT CHARGE CONTROLLER

***The most powerful MPPT charge controller on the market at a great price!***

The Classic150-RCM substantially increases the flexibility, features and range currently found on MPPT controllers at an incredible price. The Classic 150 RCM MPPT Charge Controller is IEC 62109 listed. Includes Ground Fault, free web monitoring, a graphics panel and Solar, Hydro and Wind Modes.

### PRODUCT FEATURES

- Manual and Auto EQ
- Built in DC-GFP and
- Communicates with the Clipper and Whizbang Jr.
- Mymidnite.com: Online Status Monitoring
- Full Internet capability
- Remote and local displays possible
- 150 operating voltage
- Exclusive HyperVOC extends VOC limits
- 380 days of daily history, 24 hours of data at 5 minute intervals
- 12-72V battery charging standard
- Solar, Wind and Hydro MPPT modes
- Communications - Ethernet, Modbus and RS232
- Parallel operation for multiple Classic systems
- IEC and CEC Classified



**Included: Local Application for local network or worldwide command and control of all Classic functions.**



**Classic150-RCM MPPT Charge Controller**

Nominal Battery Voltage	12 Through 72 volts
Maximum Output Current	Classic 150 and 150 Lite = 96A on 12V, 94A on 24V and 86A on 48V battery
PV Open Circuit Voltage VOC <i>(NOTE: See HyperVOC at bottom)</i>	Classic150 = 150V + HyperVOC (battery voltage up to 48V) <i>Example 150V + 48V = 198VOC</i> MPPT Voltage Range 15-150vdc
Power Conversion Efficiency	98% (Typical system)
Maximum Stand-By Self-Consumption (12V)	2.8W - 4W
Reverse Current At Night	Zero - Internal relay for reverse current
Low Battery Voltage	Low Battery voltage disconnect and re-connect of loads fully programmable with 2 Auxiliary outputs to control external load disconnect /re-connect switches
Hyper VOC <i>(NOTE: See HyperVOC at bottom)</i>	Standard all models - Extended VOC range for cold climates
Arc Fault Protection	Not included
Ground Fault Protection	Standard all models - resettable, no fuse to blow
Charging Regulation	Bulk, Absorb, Float as well as Equalization
Battery Voltage Regulation Set Points	10-100VDC
Equalization Charging	Adjustable Voltage and Duration, Manual or Auto
PV Reverse Polarity	Protected to Max VOC (Fully protected from reverse current on both input and output)
Battery Reverse Polarity	Fully protected
Battery Over Voltage	Fully protected
Battery Short Circuit	Fully protected
Battery Temp Compensation	Automatic when BTS is installed, Adjustable mV per degree C per 2V cell
Programmable Auxiliary Control Output	2 Auxiliary outputs, Aux1 can be 12V out or dry contact, Aux2 is 12V out or Logic IN
Graphic Display	Graphical display - MNGP
Networking Cabling	Standard 2 conductor phone cable, no hub needed
Communications	RS232, Ethernet and ModBus openly published protocol
USB Communications	Not Included
Remote Display	Display (MNGP) can be relocated and a second display can be added
Remote Monitoring And Control	Local Application software included allows viewing and control from the network or over the Internet. MyMidNite.com - online status monitoring
Internet Ready	YES
Data Logging	380 days of daily history, 24 hours of data at 5 minute intervals
Positive Ground Applications	Requires 2 pole input and output breakers
Operating Temperature	Minimum of -40C to 50C - Controller will auto derate as temperature rises above 25C
Environmental Rating	Indoor type IP20
Conduit knock Outs	Single 1" conduit (35.05mm) on left and right sides. Two 1" conduit (35.05mm) on bottom. Two 3/4" conduit (27.76mm) on back.
Warranty	5 Year standard
Weight & Dimensions	12 Lbs. (5.45 kgs) - 14.9" x 6" x 4" (378mm x 152mm x 102mm)
Shipping Dimensions HxWxD	19" x 8.5" x 5.7" (482.6mm x 215.9mm x 144.78mm)
Options	MNGP graphical display, 3ft networking cable
Certifications	CE Certified, FCC Class B, IEC and CEC listed

HyperVOC: A non-operative VOC safety zone over and above the maximum input voltage for cold climates.

**NOTE:** Turbine short circuit protection is provided by the additional MidNite Clipper  
Turbine voltage and speed protection provided when used with MidNite Clipper