

Classic 150, 200 or 250 MPPT Charge Controllers

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| Nominal Battery Voltage | 12 Through 72 volts on Classic's |
| Maximum Output Current | Classic 150 = 96A on 12V, 94A on 24V and 86A on 48V battery Classic 200 = 79A on 12V, 78A on 24+48V and 65A on 72V battery Classic 250 = 61A on 12V, 62A on 24V, 55A on 48V and 43A on 72V 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> Classic200 = 200V + HyperVOC (battery voltage up to 48V) Classic250 = 250V + HyperVOC (battery voltage up to 48V) <i>(NOTE: See HyperVOC at bottom)</i> |
| 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 | Standard on Classic, 0.25 second detect and trip speed |
| 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 (Classic MPPT Charger Controllers are fully protected from reverse current on both input and output) |
| Battery Reverse Polarity | Fully protected (Classic MPPT Charger Controllers are fully protected from reverse current on both input and output) |
| Battery Over Voltage | Fully protected (Classic MPPT Charger Controllers are fully protected from over current on both input and output) |
| 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 |
| Networking Cabling | Standard 4 conductor phone cable, no hub needed |
| Communications | ModBus openly published over Ethernet and RS232 |
| 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 |
| Terminal Rating | 75 C |
| Internet Ready | All models |
| Data Logging | 380 days of daily history, 24 hours of data at 5 minute intervals |
| Wind And Hydro Applications | Standard on all models |
| 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 IP30 (The Classic is IP22 Rated to 60529 when used with Classic Drip Shield) |
| 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 |
| 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 | Listed by ETL for US & Canada, CE Certified, FCC Class B |

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