

**Classic and Classic Lite 150, 200 or 250**

**Classic 250KS**

Nominal Battery Voltage	12 Through 72 volts on Classic's. Lite requires PC or MNGP to program above 48V	12 Through 120 volts
Maximum Output Current	Classic 150 and 150 Lite = 96A on 12V, 94A on 24V and 86A on 48V battery Classic 200 and 200 Lite = 79A on 12V, 78A on 24+48V and 65A on 72V battery Classic 250 and 250 Lite = 61A on 12V, 62A on 24V, 55A on 48V and 43A on 72V battery	56A on 12V, 58A on 24V, 50A on 48V and 35A on 120V battery
PV Open Circuit Voltage VOC (NOTE: See HyperVOC at bottom)	Classic150 = 150V + HyperVOC (battery voltage up to 48V) Example 150V + 48V = 198VOC Classic200 = 200V + HyperVOC (battery voltage up to 48V) Classic250 = 250V + HyperVOC (battery voltage up to 48V) NOTE: See HyperVOC at bottom	250V + HyperVOC (battery voltage up to 48V)  NOTE: See HyperVOC at bottom
Power Conversion Efficiency	98% (Typical system)	98% (Typical system)
Maximum Stand-By Self-Consumption (12V)	2.5W	2.5W
Reverse Current At Night	Zero - Internal relay for reverse current	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	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	Standard all models - Extended VOC range for cold climates	Standard - Extended VOC range for cold climates
Arc Fault Protection	Standard on Classic, 0.1 second detect and trip speed - Not available on the Lite	Standard, 0.1 second detect and trip speed
Ground Fault Protection	Standard all models - resettable, no fuse to blow	Standard - resettable, no fuse to blow
Charging Regulation	Bulk, Absorb, Float as well as Equalization	Bulk, Absorb, Float as well as Equalization
Battery Voltage Regulation Set Points	10-100VDC	10-150VDC
Equalization Charging	Adjustable Voltage and Duration, Manual or Auto	Adjustable Voltage and Duration, Manual or Auto
PV Reverse Polarity	Protected to Max VOC	Protected to Max VOC
Battery Reverse Polarity	Fully protected	Fully protected
Battery Over Voltage	Fully protected	Fully protected
Battery Short Circuit	Fully protected	Fully protected
Battery Temp Compensation	Automatic when BTS is installed, Adjustable mV per degree C per 2V cell	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	2 Auxiliary outputs, Aux1 can be 12V out or dry contact, Aux2 is 12V out or Logic IN
Status Display	Graphical display - MNGP (NOTE: MNGP is an option on the Classic Lites)	Graphical display - MNGP
Networking Cabling	Standard 4 conductor phone cable, no hub needed	Standard 4 conductor phone cable, no hub needed
Communications	RS232, Ethernet and ModBus openly published protocol	RS232, Ethernet and ModBus openly published protocol
Remote Display	Display can be relocated and a second display can be added	Display 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	Local Application software included allows viewing and control from the network or over the Internet. MyMidNite.com - Online status monitoring
Internet Ready	Internet Ready	Internet Ready
Data Logging	380 days of daily history, 24 hours of data at 5 minute intervals	380 days of daily history, 24 hours of data at 5 minute intervals
Wind And Hydro Applications	Standard on all models, requires a PC or MNGP on the Lite	Standard
Positive Ground Applications	Requires 2 pole input and output breakers	Requires 2 pole input and output breakers
Operating Temperature	Minimum of -40C to 50C - Controller will auto derate as temperature rises above 25C	Minimum of -40C to 50C - Controller will auto derate as temperature rises above 25C
Environmental Rating	Indoor type 1	Indoor type 1
Conduit knock Outs	Single 1" on the Left and Right. Two 1" on the bottom - 35MM hole	Single 1" on the Left and Right. Two 1" on the bottom - 35MM hole
Warranty	5 Year standard	5 Year standard
Weight & Dimensions	12 Lbs. (5.45 kgs) - 14.9" x 6" x 4" (378MM x 152MM x 102MM)	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)	19" x 8.5" x 5.7" (482.6MM x 215.9MM x 144.78MM)
Options	MNGP (Display), 3ft networking cable	MNGP (Display), 3ft networking cable
Certifications	Listed by ETL for US & Canada, CE Certified, FCC Class B	Listed by ETL for US & Canada, CE Certified Listed, FCC Class B Listed

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