

# HAWKE'S BAY MPPT Solar Charge Controller

**Full featured 600VDC to 48VDC 6600 watt MPPT charge controller with control panel**

## PRODUCT FEATURES

- 90 and 120 amp vented models (MNHAWKE'S BAY 90 and MNHAWKE'S BAY 120)
- Least expensive large output 600VDC MPPT either by itself or when outfitted with options
- Ideal for larger DC coupled battery based on-grid and off-grid installations
- Min VOC 220 volts
- Ideal VOC 300 to 600 volts
- MPPT window 185 to 585 volts
- Faster and less expensive installation. Typically no combiner needed
- Battery temp sensor included
- 2 auxiliary output
- Optional Hawke's Bay Breaker Box (MNHAWKE'S BAY BB125) protects against excessive battery voltage excursions
- Optional plug in AF/GF module
- Canbus communications seamlessly integrate with other MidNite products
- Safety certifications: UL1741 and CE low voltage directive EN50178
- 5 year warranty standard.
- Die cast and extruded aluminum enclosure rather than sheet metal
- Quiet and reliable fan cooled
- Weight: 19lbs (8.62kgs)
- Breaker box (MNHAWKE'S BAY BB125) weight: 9.5lbs (4.3kgs)

***Designed and Assembled in the USA  
using as many American components as feasible!***



Hawke's Bay MPPT Charge Controller (MNHAWKE'S BAY 90 or MNHAWKE'S BAY 120)



Hawke's Bay Charge Controller with optional Hawke's Bay Breaker box (MNHAWKE'S BAY BB125)

# HAWKE'S BAY SPECIFICATIONS

Nominal Battery Voltage	48V
Maximum Output Current	90 or 120 amps depending on model
Min / Max Open Circuit Voltage VOC	220 / 600 VDC
Power Conversion Efficiency	98% (Typical system)
Arc Fault and NEC 2020 Ground Fault Protection	Optional plugin modules - user installed
Charging Regulation	Bulk, Absorb, Float as well as Equalization
Battery Voltage Regulation Set Points	40V to 65V
Equalization Charging	Adjustable voltage and duration
Battery Over Voltage	Fully protected (The Hawke's Bay Breaker Box automatically trips PV input breaker if battery exceeds 68VDC)
Battery Short Circuit	Fully protected
Battery Temp Compensation	Automatic when BTS is installed. Adjustable mV per degree C per 2V cell
Programmable Auxiliary	2 auxiliary outputs
Graphic Display	MNGP2 - 64 x 122
Stacking cables for system networking	Standard CAT5 - Canbus
Communications	Canbus
Remote Display	MNGP2 can be relocated and a second display can be added
Operating Temperature	Minimum of -40C to 50C (controller will auto derate as temperature rises above 25C)
Terminal Rating	75C
Data Logging	380 days of daily history
Positive Ground Applications	Requires 2 pole input and output breakers
Environmental Rating	Type 1 (Indoor only)
Warranty	5 years
Weight & Dimensions	17-5/8" x 9" x 8-1/8" 19lbs (8.62kgs)
Shipping Dimensions	22" x 12" x 11" 24lbs (10.89kgs)
Certifications	Listed by ETL for US & Canada
Optional	Hawke's Bay Breaker Box (MNHAWKE'S BAY BB125), SPD115 and SPD 600 (MNSPD-115 for Battery Side and MNSPD-600 for the PV input side)

