

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
- Widest MPPT tracking range 185-585VDC
- Faster and less expensive installation. Typically no combiner needed
- Battery temp sensor included
- 2 aux input/outputs, the most in the industry
- Add on Hawke's Bay Breaker Box (MNHAWKE'S BAY BB-125) protects against excessive battery voltage excursions
- Optional plug in arc fault
- Optional plug in NEC2020 compliant ground fault
- Optional plug in Sunspec compliant Rapid Shutdown transmitter (module or string level)
- Canbus communications seamlessly integrate with other MidNite products
- Safety certifications: UL1741 and CE low voltage directive EN50178 (NOT LISTED FOR USE IN CANADA)
- 5 year warranty standard.
- Die cast and extruded aluminum enclosure rather than sheet metal
- Quiet and reliable fan cooled
- Weight: 20 Lbs.
- Breaker box weight: 9 Lbs.

*Designed and Assembled
in the USA*

*using as many American
components as feasible!*

www.midnitesolar.com

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



Hawke's Bay Charge Controller with Hawke's Bay Breaker box attached (MNHAWKE'S BAY BB-125)



HAWKES BAY SPECIFICATIONS

Nominal Battery Voltage	48V
Maximum Output Current	90 or 120 amps depending on model
PV Open Circuit Voltage VOC	600VDC
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 Hawkes 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	3 auxiliary input/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
External Monitoring	Phone Application software allows monitoring within normal blue tooth range from Hawkes Bay.
Terminal Rating	75C
Data Logging	380 days of daily history
Wind and Hydro Applications	Coming soon (firmware upgradeable)
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 1
Warranty	5 years
Weight & Dimensions	17-5/8 x 9 x 8-1/8 23 Lbs (23.43 kgs)
Shipping Dimensions	23 x 15.05 x 11.05
Options	Barcelona Breaker Box, SPD115 and SPD 600 (MNSPD-115 for Battery Side and MNSPD-600 for the PV input side)
Certifications	Listed by ETL for US (NOT LISTED FOR USE IN CANADA)

