microTrax MPPT™

mX6215

MPPT Solar Charge Controller

The mX6215 Solar Charge Controller is a photovoltaic (PV) charge controller that tracks the maximum electrical power point of a PV array to deliver the maximum available current for charging the batteries. While charging, the mX6215 Solar Charge Controller regulates battery voltage and output current based on the amount of energy available from the PV array and state-of-charge of the battery.

The mX Series Solar Charge Controller is especially targeted towards a wide range of consumer applications. It is designed for negative grounded systems. The mX Series has a higher operating input voltage than conventional charge controllers, which enables the application to use thinner wires from the PV array to the charge controller, which in-turn saves wiring costs. It comes in standard wall mount housing.

The mX6215 Charge Controller incorporates a dynamic Maximum Power Point Tracking (MPPT) algorithm called microTrax^{MPPT} designed to maximize energy harvest from the PV array. The microTrax^{MPPT} constantly adjusts the operating power points of the array to ensure it stays on the maximum power point. It does not stop energy harvest to sweep the array like some other competing products. This feature is beneficial in all sunlight conditions, especially in areas with fast moving cloud cover and quickly changing solar conditions

The mX6215 is the only one of its kind in the market with the unique Hybrid Switching function built into the Solar Charge Controller. This system comes with two options i.e. It save the battery going into the deep discharge by having option for DC load switch OR It intelligently switches off the utility mains input of the existing UPS to optimize its usage and reduce billing costs. With a complete LCD and LED interface the mX6215 is ideal for home users that have an already installed UPS backup system.

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Product features

- Maximum Power Point Tracking (MPPT) delivers maximum available power from PV array to battery bank
- Built-in Hybrid Switching function
- Reverse Battery Protection
- Full output current up to 70°C without thermal de-rating
- Selectable two or three stage charging algorithms with manual equalization to maximize system performance and improve battery life
- Graphic Display and 4 buttons for configuration and system monitoring
- Input over-voltage and under-voltage protection, output over-current protection, and back-feed
- Reverse current protection (warning and fault messages appear on LCD when unit shuts down as a protective measure)
- Over-temperature protection and power de-rating when output power and/or ambient temperature are high
- One-year warranty

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Electrical Specifications	
Nominal Charging Current	**60Amp**
Nominal battery voltage	12VDC / 24VDC (Auto Detection)
Maximum PV array voltage (operating)	150VDC * 2 PV Strings
Array short-circuit current	30Amp DC maximum
Maximum wire size	10mm^2
Total power consumption while operating	12 Watts max (At Full Power)
Charger regulation method	Three-stage (bulk, absorption, float)
	Two-stage (bulk, absorption)

Special Features	
Display	Graphic Display
Navigation	4 Button
Hybrid Function Built-in Relay Rating	30Amps
Dual Chanel MPPT (Independent)	**60Amp** (**30Amps +30Amp**)

Mechanical Specifications	
Dimensions (H × W × D)	287 × 183 × 95 mm
Weight (shipping)	<5 kg
Shipping dimensions (H × W × D)	300 × 200 × 105 mm
Mounting	Wall mount

Environmental Specifications	
Operating temperature range (full power)	-20 to +70 °C (up to 75 °C de-rated)
Storage temperature	-40 to +125 °C

*Specifications subject to change without notice.

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