

APEX



MPPT-4K

Datasheet

APEX Inverter's MPPT-4K is designed for high power charging of lithium or lead batteries. Dual MPPT trackers take care of 2 PV arrays independently, optimising your installation and ensuring the maximum yield. Black start functionality ensures that you are never stuck without the ability to restart an over-discharged battery. The colour user interface is attractive, intuitive and user-friendly and provides all the information you need to monitor, manage and control your system.

Key Features:

- Blackstart functionality.
 - Dual independent trackers.
 - High voltage – no precombining required.
 - Wide battery compatibility.
 - Ground Fault detection.
 - Colour touch screen user interface.
 - CAN bus for battery integration.
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PRODUCT DATA**SYSTEM RATINGS**

	MPPT-4K 80A Charge Controller
Number of Input Ports	2 (Individual MPPT Control)
Input Vmp Voltage Range	100-350 Vdc per port
Maximum Input Voltage	350 Vdc
Nominal Photovoltaic Power	2000 W (per port)
Maximum Photovoltaic Power	3000 W (per port)
Output Voltage Range	40 – 63 Vdc
Max Battery Output Current	80A (2x 40 A per port)
Protection	Ground-Fault Detector Interrupter (GFDI), Overvoltage (Photovoltaic and Battery), Reverse Polarity (Photovoltaic and Battery)

BATTERY INPUT

Nominal Battery Voltage	48Vdc
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EFFICIENCY

Efficiency	Up to 95 % @ 80Adc (typical)
No Load Power Consumption	Less than 5 W

GENERAL SPECIFICATIONS

Mounting Method	Wall Mounted (Bracket and fasteners included)
Dimensions (W x H x D)	210 x 380 x 147 mm (Shipping: 275 x 440 x 215)
IP/NEMA Rating	IP20 / NEMA1
Colour	RAL9002 / RAL9011
Weight	6 kg / Shipping: 6.2 kg
Architecture	Forced Air Cooling

CLIMATIC CONDITIONS

	MPPT-4K 80A Charge Controller
Ambient Temperature	-10 to 60°C (derated above 40°C)
Ambient Transport Temperature	-25 ... 70°C
Maximum Ambient for Rated Power	40°C
Relative Humidity (Non-Condensing)	5 ... 85%
Maximum Altitude for Rated Power	1000 m above sea level (Power derated for High Altitude)

OPERATOR PANEL

Display Type	4.3 inch LCD Colour Touch screen
Graphs	24 hour history display of solar power production (both ports), battery and most recent sweep graph (both ports)
Data and Event Logs	Daily solar production (kWh) and peak power (kW). Logging of system events.

All specifications listed above performed at nominal voltage, frequency and temperature unless otherwise noted.

ALTITUDE DERATING

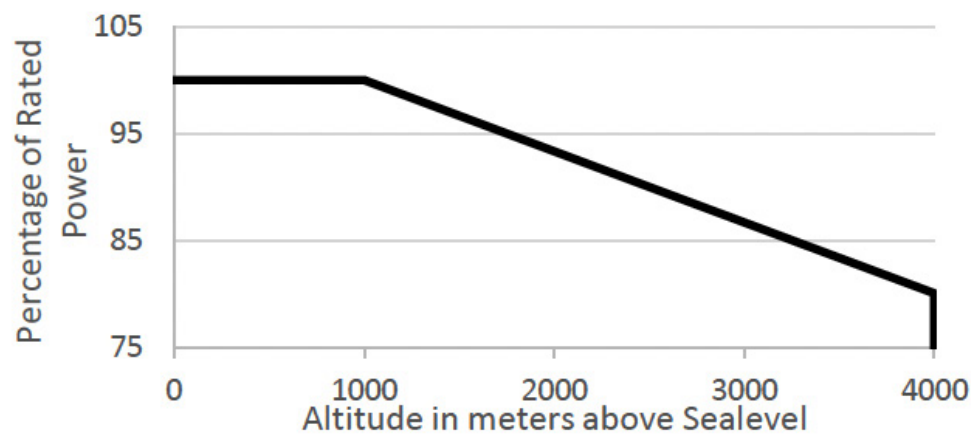


Figure 1: De-rating the MPPT-4K charge controller output power at high altitude.

CONTACT US

For more or updated information, new products and technical support please visit:
www.ApexSolar.Tech