

PowerLab Smart MPPT Solar Charger - Specs

Headline: Clean Energy, Smarter Control, A Brighter Tomorrow

MPPT Tracking Efficiency

> 99% (Rapid response under rapidly changing cloud conditions)

Peak Conversion Efficiency

Up to 95%

User Programmability

Field-programmable voltage thresholds, charging rates, and load timers via front panel keypad

Cloud & Wireless Options

Optional Integrated 4G LTE Wireless Module for cloud telemetry and central dashboard monitoring

Mobile Application

Android App Compatibility via Bluetooth / Wi-Fi / Cloud

Battery Chemistry Support

Universal compatibility: Lead-Acid (Flooded, GEL, AGM), Lithium Iron Phosphate (LiFePO₄), Lithium-ion NMC

Display & Telemetry

High-contrast graphic LCD display showing PV Watts, Volts, Amps, Daily Harvest kWh, Battery SOC%

Enclosure

Heavy-duty IP21/IP54 extruded aluminum heatsink and powder-coated steel housing