









40A MPPT Solar Charge Controller

MODEL: RS-MPPT40P

Features

Advanced MPPT Technology

True MPPT with the latest algorithm (tracking efficiency >99.5%) Multi-peak detection for optimal tracking in shaded conditions High charge conversion efficiency (up to 98%)

Intelligent System Compatibility

Auto 12V/24V detection

Supports 8+1 battery types: Lead-acid: GEL, AGM, WET,

CRYSTAL, CALCIUM; Lithium: LiFePO₄, LTO, LCO

Optional external battery temp sensor

Comprehensive Protection & Reliability

Advanced electronic protections: Over-voltage protection

Reverse discharge protection; Common negative ground design

IP43-rated internals (IP22 at connection area)

Conformal coated circuit board

Rugged rubber-masked connector protection

Built-in safety and circuit protection

Unique deep-discharge battery recovery/restart function

Designed to UL1741 standards

Customization & Data Management

Custom charge parameter settings

Charging data storage

Unique charge management technology



Smart Monitoring & Control

Large, informative LCD display for: Real-time solar input Battery status; System configuration; Clear LED bar and transparent window indicators Built-in Bluetooth module

Proprietary Technologies

Patented housing and enclosure design Exclusive battery recovery and charge optimization algorithms In-house design and manufacturing

Specifications

System Nominal Voltage	12V/24V Auto
Max. PV Open Circuit Voltage	100V DC
Charging Technology	MPPT
Max. PV Charging Current	40A
Recommended PV Input Power	600W (12V) / 1200W (24V)
Charge Conversion Efficiency	≤98%
MPPT Tracking Efficiency	>99.5%

Battery Compatibility	GEL/AGM/WET/CRYSTAL/CALCIUM
	/LFP/LTO/LCO
Housing Color	Black+Grey
Protection Rating	IP43 (PCBA), IP22 (Connectors)
Dimensions (L×W×H)	195×142×74mm (7.7×5.5×2.9in)
Net Weight	1.17kg (2.58lb)