

BRAVO 30 / 40

MPPT SOLAR CHARGE CONTROLLER 30A / 40A



MODEL: RS-MPPT30PB



MODEL: RS-MPPT40PB

FEATURES

Maximum Energy Harvest

Advanced MPPT algorithm with up to 99.5% tracking efficiency.
98% conversion efficiency for maximum solar energy utilization.
Stable performance under low-light and partial shading.

Reliable Safety & Reliability

Comprehensive protection: over-voltage, reverse polarity, short-circuit, over-temperature.
Durable construction with IP43-rated PCBA & IP22 connectors.
Wide operating range: -13°F to 122°F (-25°C to +50°C).
Certified to ETL, FCC, CE, RoHS.

Flexible Battery Compatibility

Auto-detects 12V/24V battery systems.
Supports 8+1 battery types: GEL, AGM, WET, CRYSTAL, CALCIUM, LiFePO₄, LTO, LCO, plus user-defined.
Multi-stage charging algorithms with customizable charging parameters extend battery lifespan.

Smart Monitoring & Control

LCD + LED display for real-time data and alerts.
Built-in Bluetooth App monitoring (Rich Solar App).
Wide MPPT operating range: 15V-72V for flexible array design.
Optional remote meter and temperature sensor for enhanced control.

SPECIFICATIONS

Model	RS-MPPT30PB	RS-MPPT40PB
Product Name	BRAVO 30	BRAVO 40
Electrical Parameters		
Maximum Solar Input Current	30A	40A
Maximum Charging Current	30A	40A
Recommended Solar Power	500W (12V) / 1000W (24V)	600W (12V) / 1200W (24V)
Nominal System Voltage	12V / 24V Auto-Detect	
Solar Input Voltage Range	8V-100V	
MPPT Voltage Range	15V-72V	
Performance		
Maximum Conversion Efficiency	98%	
Maximum MPPT Tracking Efficiency	99.5%	
Battery Compatibility	GEL, AGM, WET, CRYSTAL, CALCIUM, LiFePO ₄ , LTO, LCO, Custom	
Functions & Protections		
Display	LCD + LED	
Connectivity	Built-in Bluetooth (Optional Remote Meter & Temperature Sensor)	
Protection Rating	IP43 PCBA / IP22 Connectors	
Protections	Over-Voltage, Reverse Polarity, Short-Circuit, and Over-Temperature	
Physical & Certification		
Certifications	ETL, FCC, CE, RoHS	
Dimensions	7.0 × 5.5 × 2.9 in	7.7 × 5.5 × 2.9 in
Weight	1.8 lb	2.6 lb