

BRAVO WATERPROOF 8

PWM SOLAR CHARGE CONTROLLER

8A WATERPROOF



Advanced PWM Charging System

PWM control with high-efficiency MOSFET switching.

5-Stage Smart Charging: Soft, Bulk, Absorption, Equalization (Flooded only), Float.

Optimized energy conversion with low self-consumption.

DIP switch battery selection supporting Gel, AGM, Flooded (WET), and LiFePO₄ types.

Robust Safety & Protection

Comprehensive protection suite: over-voltage, short-circuit, reverse polarity, and thermal protection.

No-spark design for safer installation and maintenance.

IP65 waterproof housing with corrosion-resistant, coated PCB.

Simplified Installation & Operation

Common-positive grounding for simplified and secure system wiring.

LED indicators provide real-time charging and fault status.

Easy installation with included spacers, screws, and clearly labeled terminals.

Fuse recommendations provided for both solar and battery circuits to ensure safe operation.

Wide System Compatibility

Supports a wide range of rechargeable lead-acid and lithium (LiFePO₄) batteries.

Suitable for small off-grid systems, vehicles, marine, and backup power applications.

SPECIFICATIONS

ELECTRICAL PARAMETERS

Model	RS-PWM8WP
Product Name	BRAVO WATERPROOF 8
Nominal System Voltage	12V
Max PV Input Current	8A
Max PV Input Power	135W
Max PV Open-Circuit Voltage	25VDC
Standby Current (Night)	≤2mA

CHARGING CHARACTERISTICS

Charging Algorithms	5-Stage PWM
Absorption Voltage @77°F	14.1–14.7V (battery-type dependent)
Float Voltage @77°F	13.4–13.6V
Equalization (Flooded/Calcium only)	15.5V
Battery Types	Gel, AGM (Default Setting), Flooded (WET), LFP
Temperature Compensation	-24mV/°C
Built-in Protections	Over-Voltage, Reverse Polarity, Short Circuit, Thermal

ENVIRONMENTAL, MECHANICAL & CERTIFICATIONS

Terminals	M4, max #12 AWG
IP Rating	IP65
Operating Temperature	-31°F to 122°F
Dimensions	3.1 × 3.3 × 0.9 in
Net Weight	0.4 lbs
Certification	CE, FCC, RoHS