

40A PWM

SOLAR CHARGE CONTROLLER

MODEL: RS-PWM40P



FEATURE

Smart Charging Management

Auto Voltage Detection

Automatic 12V/24V system recognition (manual setup available)

Multi-Battery Compatibility

Optimized charging profiles for Sealed, GEL, Flooded, and Lithium battery types

Advanced 3-Stage PWM Charging

Boost, Float, and Equalization (prevents sulfation in lead-acid batteries, excluding GEL/Li)

Temperature Compensation

Automatic voltage adjustment (-3.0mV/°C/2V) based on ambient temperature (excludes Lithium)

Advanced Load Management

5 Operating Modes

Light Control (10-min delay) | Light Control+Timer Control (1-14h) | Manual | Debug | Normal On

Comprehensive Protection

Includes overcharge, over-discharge, overload, short-circuit, and reverse polarity protection

TVS Lightning Protection

Industrial-grade surge protection for harsh environments

User Interface & Durability

Interactive LCD Display

Dot-matrix screen with real-time system monitoring

Dual-Button Control

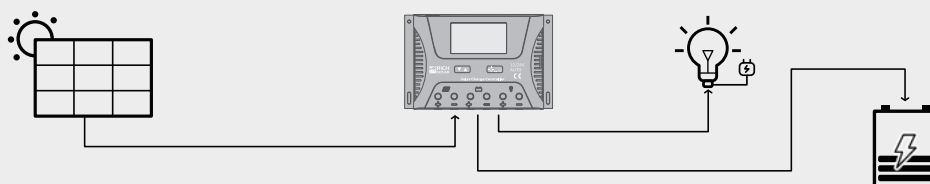
Intuitive parameter adjustment with memory function

Rugged Construction

IP30-rated enclosure operating in wide temperature operation range

SPECIFICATION

Model	RS-PWM40P
Rated Current	40 A
System Voltage	Auto recognition: 12 V / 24 V (Manual setup optional)
Rated Power	600 W @12 V / 1200 W @24 V
Max. Solar Input Voltage	< 55 V
Max. Battery Voltage	< 34 V
No-load Loss	< 13 mA @12 V / < 15 mA @24 V
Battery Compatibility	Lithium / Sealed / GEL / Flooded
Operating Temperature	-13 °F to +131 °F (-25 °C to +55 °C)
Protection Rating	IP30 (Dust / Splash Resistant)
Dimensions	164 × 103 × 47 mm (6.46 × 4.07 × 1.85 in)
Net Weight	0.39 kg (0.86 lb)



* Wiring diagram