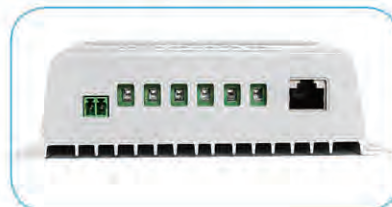


PW-B Series

(PWM Solar Charge Controller)



FEATURES

PWM charging

Three LEDs shows PV charging, battery and load status

Optional RTS for accurate temperature compensation

RS485 port with industrial standard MODBUS open architecture

Multiple load working modes: Manual Control, Light ON/OFF, Light On+Timer and Timer control

Battery type selection: Sealed, Gel, Flooded and User(programmable)

Battery temperature compensation

Real-time energy statistics

RS485 port with industrial standard MODBUS open architecture

Real-time data monitoring and parameters setting with MT50, APP or PC software

Support firmware upgrade

ELECTRONIC PROTECTIONS

PV short circuit protection

Battery over voltage protection

Battery reverse polarity protection

Load overload protection

PV reverse polarity protection

Battery over discharge protection

Load short circuit protection

Overheating protection

TECHNICAL SPECIFICATIONS

Model	PW1024B	PW1024BP	PW2024B	PW2024BP	PW3024B
Nominal system voltage	12V/24V auto work				
Rated charge current	10A	10A	20A	20A	30A
Rated discharge current	10A	10A	20A	20A	30A
Max. PV open circuit voltage	50V				
Equalize charging voltage	Sealed 14.6V, Flooded 14.8V, User-defined 9-17V				
Boost charging voltage	Gel 14.2V, Sealed 14.4V, Flooded 14.6V, User-defined 9~17V				
Float charging voltage	Gel/Sealed/Flooded 13.8V, User-defined 9~17V				
Low voltage reconnect voltage	Gel/Sealed/Flooded 12.6V, User-defined 9~17V				
Low voltage disconnect voltage	Gel/Sealed/Flooded 11.1V, User-defined 9~17V				
Self-consumption	≤ 8.4mA(12V); ≤ 7.8mA(24V)				
Temp.compensation	-3mV/°C /2V				
Communication	RS485 (RJ45 interface)				
Grounding	Common positive				
Dimension(mm)	138.6*69.3*37mm	108.5*64.5*25.6mm	159.6*81.4*47.8mm	139*76.5*28mm	200.6*101.3*57
Net weight(kg)	0.13	0.4	0.3	0.6	0.5
Enclosure	IP30	IP67	IP30	IP67	IP30
Working environment temp.	-35°C ~ +50°C				
Humidity range	≤ 95%(N.C.)				

※Technical data for 12V system at 25 °C, twice in 24V system.
 ※Programmable voltage value by PC, MT50 and App.