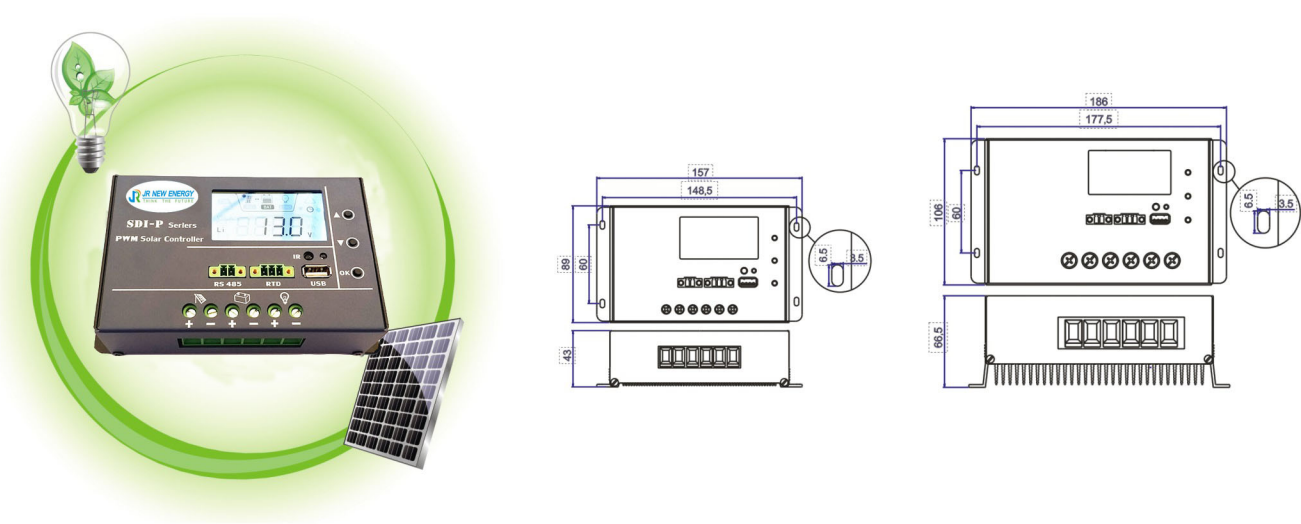


SDI-P Series PWM solar charge Controller

Product Introduction

SDI-P series is a Solar charge controller with LCD display. All parameter can shown on the LCD screen. support for USB charger and RS485 communicate. Infrared remote control also can be chosen. Mainly being use for off-grid home system.



Product Family

SDI-P20A, SDI-P30A, SDI-P40A, SDI-P50A, SDI-P60A, SDI-P70A, SDI-P80A

Main Features

- Optimized PWM Three-stage charging Mode.
- 12/24V automatic (20A-40A), 12/24/36/48V automatic (50A-80A)
- Variety parameters can be modified via panel keypad or infrared remote RC-3)
- support PV/Battery/Load parameters display and check
- Manual, Light Control or automatic dual period load output can be set
- Support for RS-485 interface, Modbus communication, support for PC remote monitoring
- Support USB charge port (5V, 1A)
- Quiescent current can be as low as 8mA
- Support for external Battery temperature sensor

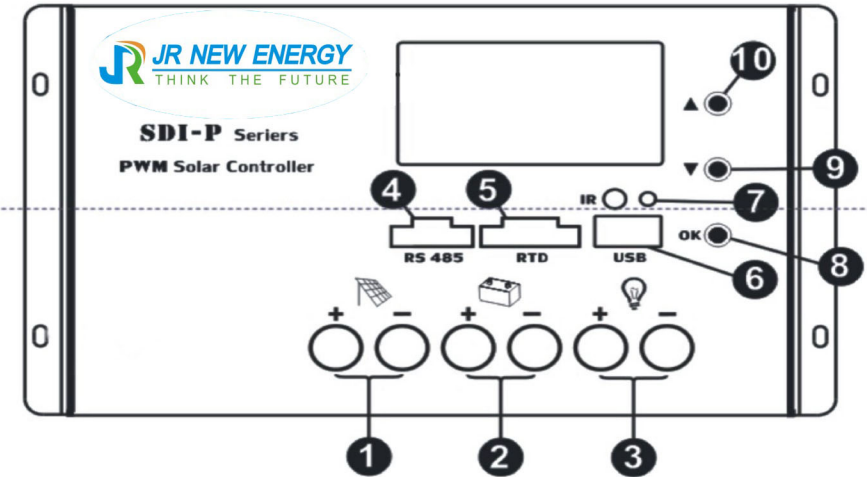
Protections

- PV reverse polarity/overvoltage alarm protection
- Battery overcharge/over discharge/reverse polarity protection
- Battery temperature too high or too low protection, particularly suitable integrated with lithium-ion battery
- Overload/Short circuit
- Over Temperature protection

Technical Specifications

SDI-P series PWM LCD Solar Charge Controller							
Rated charge current	20A	30A	40A	50A	60A	70A	80A
Model	SDI-P20A	SDI-P30A	SDI-P40A	SDI-P50A	SDI-P60A	SDI-P70A	SDI-80A
System voltage	12V/24V auto			12V/24V/36V/48V auto			
PV max open circuit voltage	100V			150V			
Rated load current	20A	30A	40A	50A	60A	70A	80A
Direct charge voltage*	GEL: 14.4V, AGM: 14.2V, Custom: 9~17V						
Boost charge voltage*	GEL: 14.8V, AGM: 14.6V, Custom: 9~17V						
Float charge voltage*	GEL / AGM: 13.8V, Custom: 9~17V						
Over-discharge return voltage*	GEL /AGM: 12.6V, Custom: 9~17V						
Over-discharge voltage*	GEL: 11.0V, AGM: 11.1V, Custom: 9~17V						
Loss	≤15mA(12V); ≤10mA(24V); ≤8mA(48V)						
Load dual period control	Auto						
External temperature sensor	DS18B20(optional)						
Temperature compensation	-4mV/°C/2V						
Communicate interface	RS485,MODBUS(optional)						
USB interface	5V 1A(optional)						
Dimensions	157x90x43mm			186x107x67mm			
Terminal Connection	6AWG 16mm²			2AWG 25mm²			
Net weight	510G			1025g			
Protection class	IP30						
LCD oprate temperature range	-20℃～+70℃						
Work temperature range	-25℃～+55℃						
Humidity	≤95% N.C.						
Note: *Technical data for 12V system at 25℃， x2 in 24V,x3 in 36V&x4 in 48V system							

Application



- (1) PV terminal
- (2) Battery terminal
- (3) Load terminal
- (4) RS485 terminal
- (5) Temperature sensor
- (6) USB terminal
- (7) Infrared signal sensor
- (8) "OK" button
- (9) "down" button
- (10) "up" button