I-Panda MPPT Solar Smart Controller voltage 12V/24V/36V/48V 50A & 60A
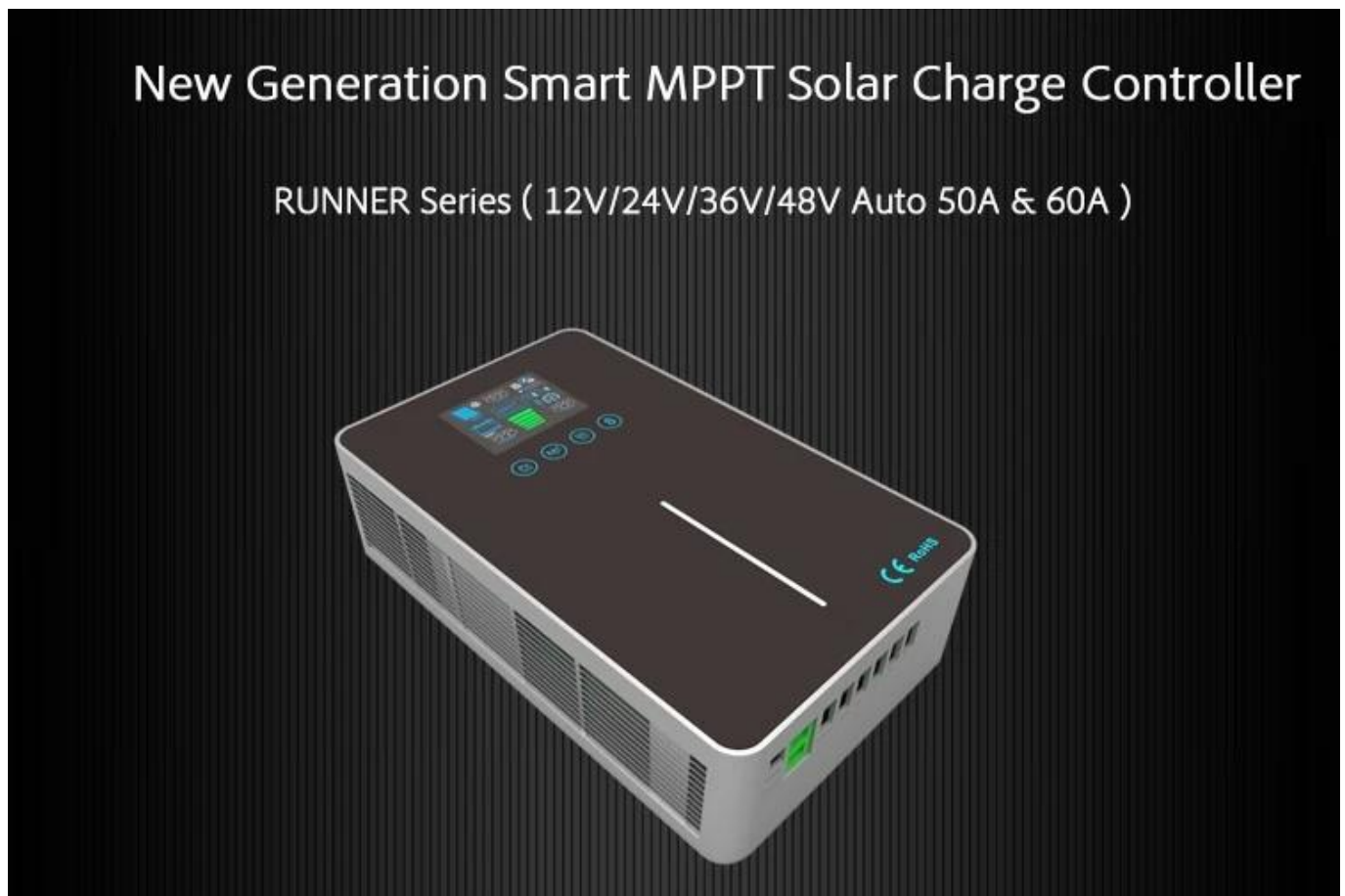

Runner runs, 2019, my off-grid system

A new generation of intelligent digital MPPT solar controller

1, high-end design, color screen, touch button
2, four-stage charging to extend battery life
3, tracking efficiency up to 99.8%
4, perfect protection function
5, expandable APP, host computer, and unlimited parallel connection
6, monitor the entire system status, diagnose system matching, etc.

Characteristics

* **High-efficient MPPT algorithm, MPPT efficiency ≥99.5%.**
* **Support Seal/Gel/Flooded battery and customized batteries.**
* **Four types of load mode selection: ON/OFF, PV voltage control, Dual Time control, PV+Time control.**
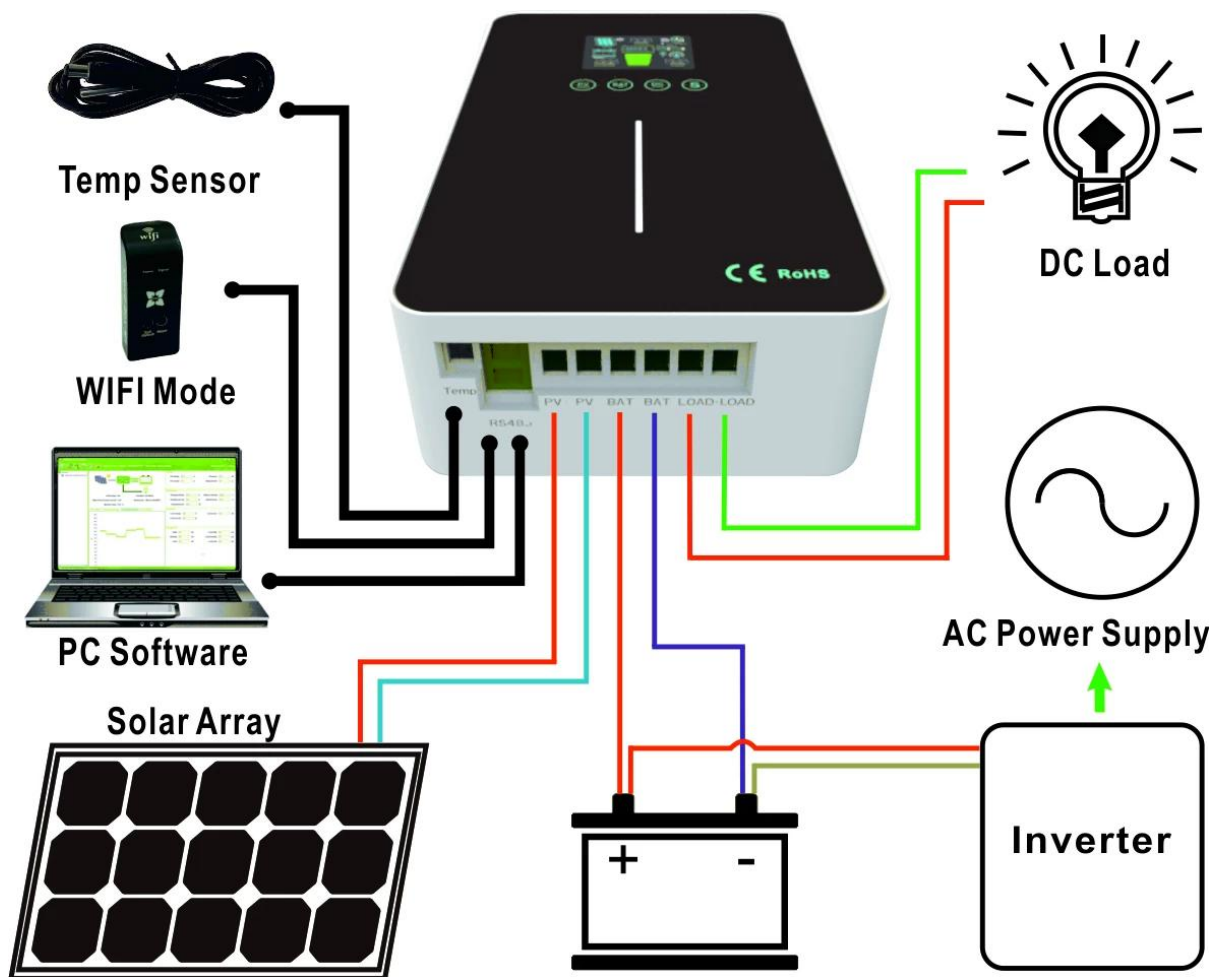* **Current-limited charging function.**
* **High definition LCD display.**

* **Intelligent interaction experience.**
* **Dual RS485 communication ports, support for parallel communication.**
* **Support PC and APP (Android & iOS) monitoring.**
* **CE, RoHS, FCC certifications approved.**

parameter

RUNNER Series		RUNNER -50A	RUNNER -60A
Product Category	Controller properties	MPPT (Maximum power point tracking)	
	MPPT efficiency	≥99.5%	
	Standby power	0.5W~1.2W	
	System voltage	12V/24V/36V/48V auto work	
	Heat-Dissipating method	Fan-cooling	
Input Characteristics	Max.PV input voltage(Voc)	DC150V	
	Start charge voltage point	Battery voltage + 3V	
	Low input voltage protection point	Battery voltage + 2V	
	PV rated power — 12V system	650W	780W
	PV rated power — 24V system	1300W	1560W
	PV rated power — 36V system	1950W	2340W
	PV rated power — 48V system	2600W	3120W
Charge Characteristics	Battery types (Default Gel battery)	Gel battery, Sealed lead-acid battery, Flooded battery, User-defined	
	Charge rated current	50A	60A
	Charge method	3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge)	
LOAD Characteristics	Load voltage	Same as battery voltage	
	Load rated current	30A	
	Load control mode	On, Off , PV voltage control, Dual-time control, PV + Time control	
	Low voltage protection	The default protection point is 10.5V, and it is restored to 11V (can be set)	
	Setup method	PC software / Mobile APP / controller display	

Display & Communication	Display	High-definition LCD segment code backlight display			
	Dry contact access voltage	5V ~ 12V			
	Communication	Dual RJ45 port / RS485 / support PC software monitoring / support WiFi module for APP cloud monitoring / support centralized parallel monitoring		Protections	Input over / low voltage, output over / low voltage, reverse connection, over temperature, short circuit, battery shedding etc.
Operating ambient temperature		-20℃~+50℃	Other Parameters		
Storage temperature		-40℃~+75℃			
IP(Ingress protection)		IP21			
Max. Battery wire (mm2/AWG)		30mm2			
Max. Load wire (mm2/AWG)		30mm2			
Recommended breaker		≥100A			
Net weight (KG)/Gross weight (KG)		2.15 / 3.05			
Product size (mm)/Packing size (mm)		305×185×72 / 420×275×150			

System connection diagram

Temp Sensor

WIFI Mode

PC Software

Solar Array

DC Load

AC Power Supply

Inverter

Temp RS485 PV PV BAT BAT LOAD-LOAD

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Remarks:

1. The above is the standard parameters of the company. If there are any changes, please check our official website;

2. Our company can customize non-conventional MPPT controllers for customers and provide OEM and ODM services;

3. [**Click to download the specification**]