I-Panda new off-grid system <u>mppt solar controller</u> 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 \geq 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.

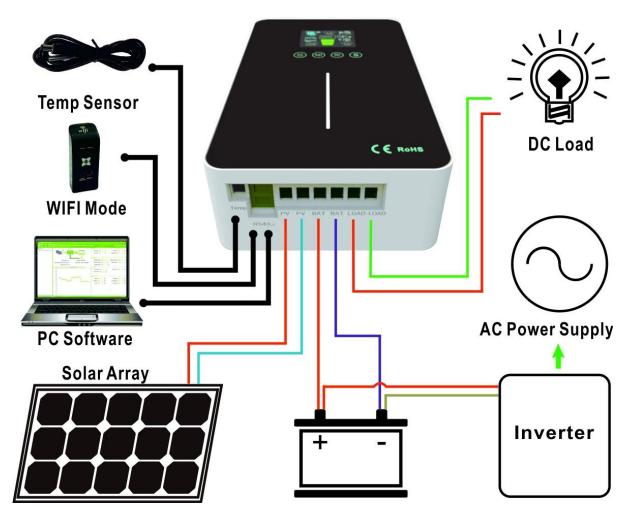
- * Current-limited charging function.
- * High definition LCD display.
- * Intelligent interaction experience.
- * Dual RS485 communication ports, support for parallel communication.
- * Support PC and APP (Android & iOS) monitoring.
- * CE, RoHS, FCC certifications approved.

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	
		24V system	1300W	1560W	
		36V system	1950W	2340W	
		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		High-definition LCD segm				
	Dry contact access voltage		5V ~				
Display & Communication	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,
Operating ambient temperature			-20°C~+50°C				battery shedding etc.
Storage temperature		-40°C~+75°C			Other Parameters		
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) 305×1		5×72 / 420×275×150]				

System connection diagram



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]