I-Panda new 50A&60A off-grid system [MPPT solar charge controller]

Explorer develops solar field vision, making nature more beautiful and more efficient

A new generation of MPPT solar intelligent digital controller

1, self-heating, waterproof rating IP67
2, beautiful design, touch buttons, internal and external repair
3, four-stage charging to extend battery life
4, tracking efficiency as high as 99.8%
5, perfect protection function
6, can expand APP, host computer, and unlimited parallel
7, can monitor the entire system status, determine 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.
* All-in-one integrated design, high stability and reliability.
* Current-limited charging function.
* IP67 protection, natural-cooling.
* High definition LCD segment display.
* Intelligent interaction experience.
* Dual RS485 communication ports, support for parallel communication.
* Support PC and APP (Android & iOS) monitoring.
* CE, RoHS, FCC certifications approved.

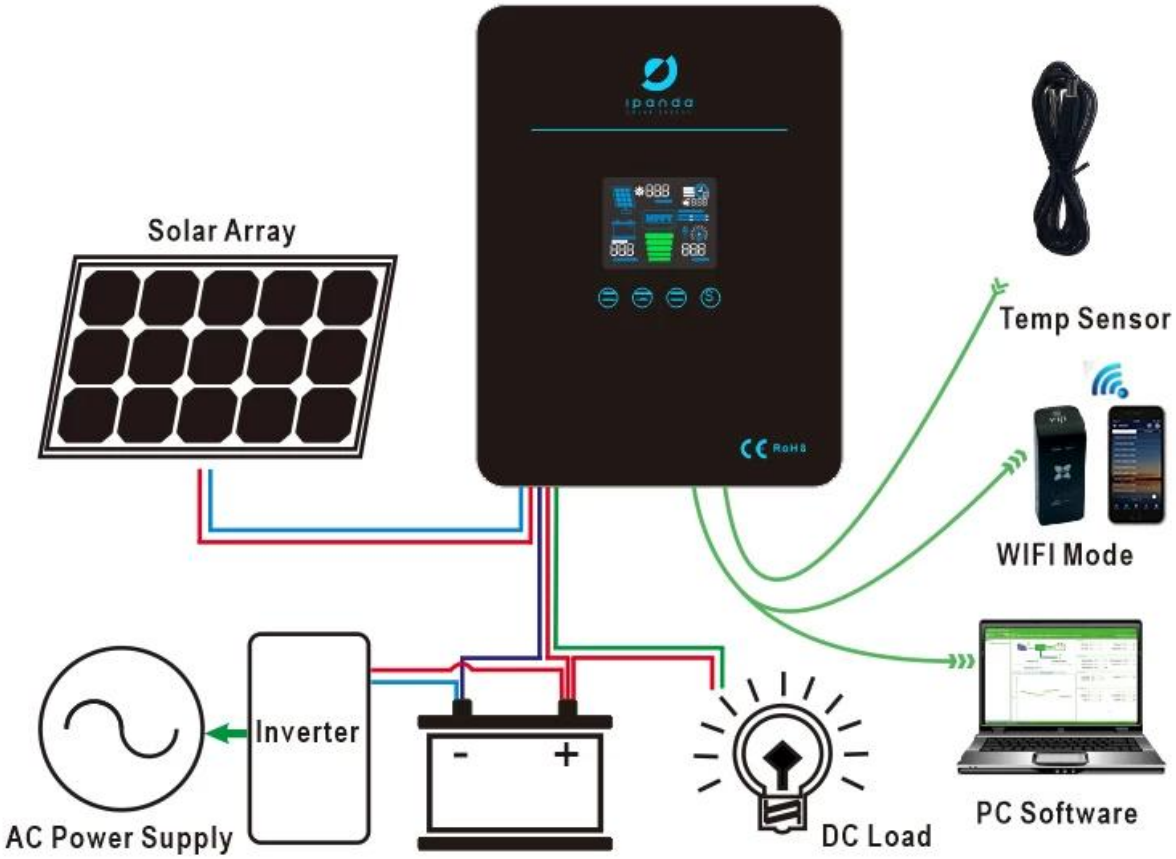
parameter

Explorer Series			Explorer-50A	Explorer-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		Natural -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 & 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	

Operating ambient temperature	-20℃~+50℃
Storage temperature	-40℃~+75℃
IP(Ingress protection)	IP67
Max. Battery wire (mm2/AWG)	28mm2
Max. Load wire (mm2/AWG)	28mm2
Recommended breaker	≥100A
Net weight (KG)/Gross weight (KG)	4.15 / 5.5
Product size (mm)/Packing size (mm)	290×220×88 / 410×328×193

Other Parameters	Protections	Input over/low voltage, output over/low voltage, reverse connection, over temperature, short circuit, battery shedding etc.

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**]