

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 $\geq 99.5\%$.
- * 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.
- * 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.

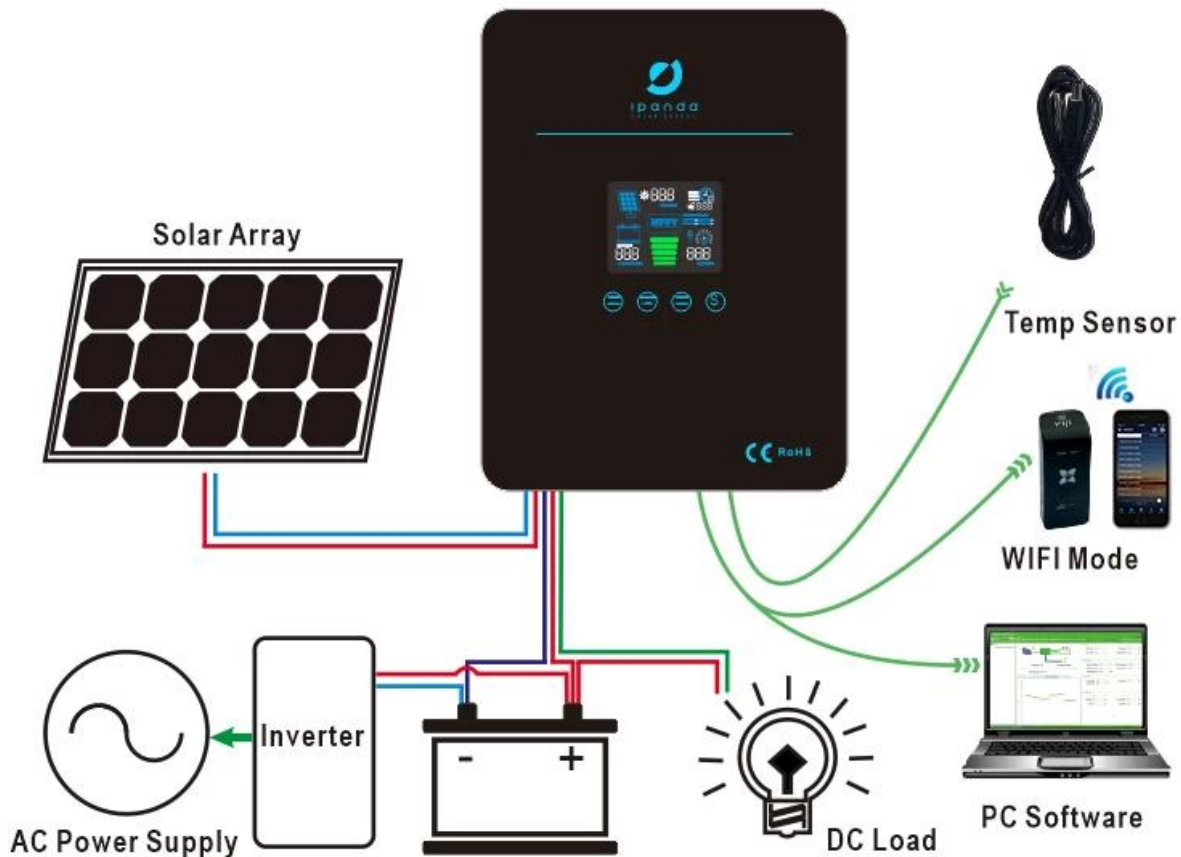
parameter

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
		24V system	1300W
		36V system	1950W
		48V system	2600W
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°C~+50°C	
Storage temperature		-40°C~+75°C	
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	

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

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](#)]