I-Panda new generation MPPT solar controller 50A / 60A



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.



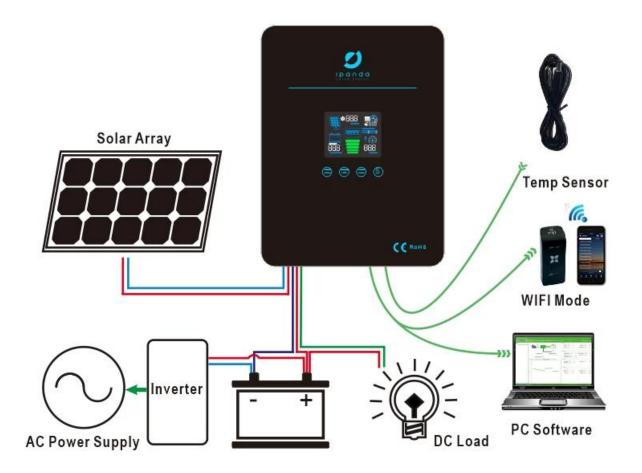
Characteristics

- * 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 | 1 | | |
|------------------------------------|-------------------------------------|-------------|--|--------------|------------|--|---|
| | Controller properties | | MPPT (Maximum power point tracking) | | | | |
| Product Category | MPPT efficiency | | ≥99.5% | | 1 | | |
| | 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 | | | | |
| | | 12V system | 650W | 780W | | | |
| | PV rated power | 24V system | 1300W | 1560W | | | |
| | rv rateu power | 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 $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}{2}\left$ | | | | |
| | 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 | | 1 | | |
| Display & Communication | Display | | High-definition LCD segment code backlight display | | | | |
| | Dry contact access voltage | | 5V ~ 12V | | | | |
| | Communication | | Dual RJ45 port/RS485/suppor support WiFi module for APP cloud monitorin | | | | Input over/low voltage, output over/low voltage, reverse connec |
| Operating ambient temperature | | -20°C~+50°C | | | Protection | over temperature, short circuit, battery shedding etc. | |
| Storage temperature | | | -40°C~+75°C | | | | |
| IP(Ingress protection) | | IP67 | | | | | |
| Max. Battery wire (mm2/AWG) | | 28mm2 | | | Other | | |
| Max. Load wire (mm2/AWG) | | | 28mm2 | | Parameters | | |
| Recommended breaker | | | ≥100A | | | | |
| Net weight (KG)/Gross weight (KG) | | | 4.15 / 5.5 | | | | |
| roduct size (mm)/Packing size (mm) | | | 290×220×88 / 410×328×193 | | | | |

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]