# I-Panda nieuwe generatie MPPT-zonnecontroller 20A-60A

Explorer-M ontwikkelt zonneveldzicht, waardoor de natuur mooier en efficiënter wordt

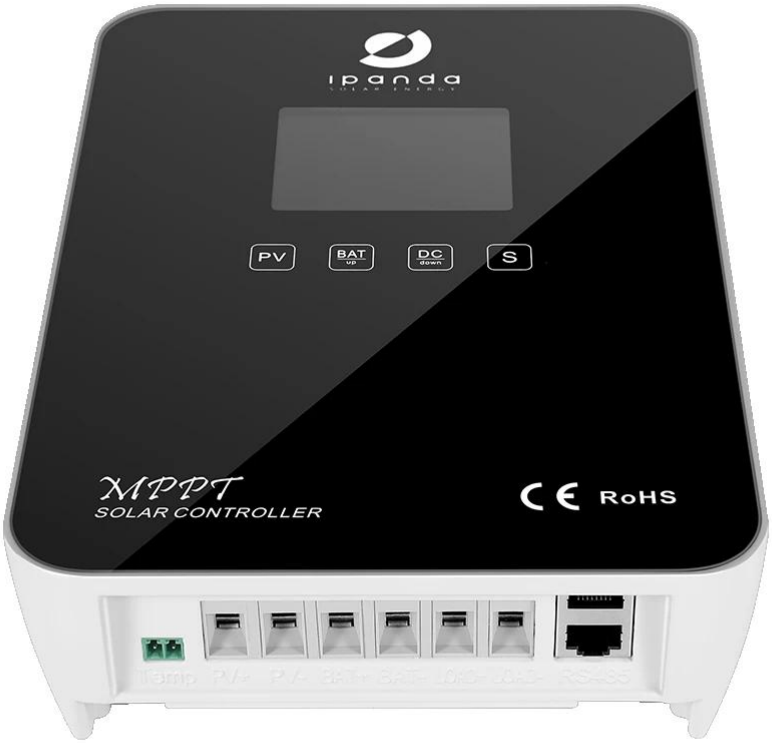
Een nieuwe generatie MPPT zonne-intelligente digitale controller

1, zelfopwarming, waterdichtheid IP43
2, mooi design, aanraakknoppen, interne en externe reparatie
3, viertraps opladen om de levensduur van de batterij te verlengen
4, tracking-efficiëntie zo hoog als 99,8%
5, perfecte beschermingsfunctie
6, kan APP, hostcomputer en onbeperkt parallel uitbreiden
7, kan de volledige systeemstatus controleren, systeemafstemming bepalen, enz.

ipanda
SOLAR ENERGY
PV
BAT
up
DC
down
S
MPPT
SOLAR CONTROLLER
CE RoHS

Ipanda
S
DC Out
Bat Out
PV
RoHS
MPPT
SOLAR CONTROLLER
WARNING
Do Not Touch
Sink Not To Burn

ipanda
SOLAR ENERGY
PV
BAT
DC
S
MPPT
SOLAR CONTROLLER
CE RoHS



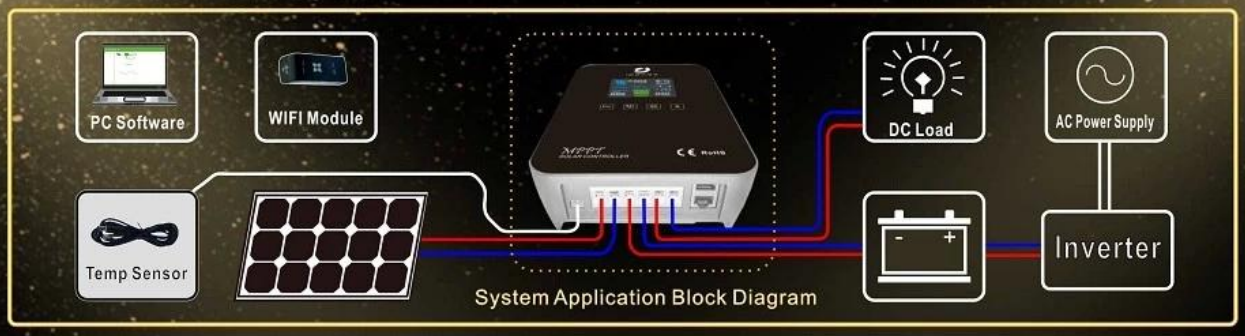

## Kenmerken

* Hoog-efficiënt MPPT-algoritme, MPPT-efficiëntie ≥99,5%.
* Ondersteuning Seal / Gel / Flooded-batterij en aangepaste batterijen.
* Vier soorten selectie van laadmodus: AAN / UIT, PV-spanningsregeling, Dual Time-besturing, PV + Time-besturing.
* Alles-in-één geïntegreerd ontwerp, hoge stabiliteit en betrouwbaarheid.
* Stroombeperkte oplaadfunctie.
* IP43-bescherming, natuurlijke koeling.
* High-definition LCD-segmentweergave.
* Intelligente interactie-ervaring.
* Dubbele RS485-communicatiepoorten, ondersteuning voor parallelle communicatie.
* Ondersteuning van pc- en APP-monitoring (Android en iOS).
* CE, RoHS, FCC-certificeringen goedgekeurd.

## parameter

# Shenzhen I-Panda New Energy Technology & Science Co.,Ltd

**Explorer-M Series**




System Application Block Diagram

| | Model | | EM2420 | EM2430 | EM2440 | EM2450 | EM2460 |
|---|---|---|---|---|---|---|---|
| Product Category | MPPT efficiency | | ≥ 99.5% | | | | |
| | Standby consumption | | 0.5W~1.2W | | | | |
| | Heat-dissipating method | | Natural-Cooling | | | | |
| | Battery system voltage range | 12V system | 9VDC~15VDC(Lead acid) | | | | |
| | | 24V system | 18VDC~30VDC(Lead acid) | | | | |
| | | Li-ion | 8VDC~30VDC(Default), ≤30VDC(Optional activation function) | | | | |
| Input Characteristics | Max. PV input voltage(Voc) | | 100VDC(Default), DC150V(Optional) | | | | |
| | Min. Vmpp Voltage | | Battery voltage + 2V | | | | |
| | Start-up charging voltage | | Battery voltage + 3V | | | | |
| | Low input voltage protection | | Battery voltage + 2V | | | | |
| | Over voltage protection / Recovery | | 100VDC/95VDC(Default),150VDC/145VDC(Optional) | | | | |
| | Rated PV Power | 12V system | 260W | 390W | 520W | 650W | 780W |
| | | 24V system | 520W | 780W | 1040W | 1300W | 1560W |
| | | Li-ion | 252W~504W | 378W~756W | 504W~1008W | 630W~1260W | 756W~1512W |
| Charge Characteristics | Activation for lithium battery | | Optional | | | | |
| | Battery types(Default Gel battery) | | Sealed(SEL), Gel(GEL), Flooded(FLD), User-defined(USE), Li-ion(Lit) | | | | |
| | Rated charge current | | 20A | 30A | 40A | 50A | 60A |
| | Temperature compensation | | -3mV/℃/2V (default) | | | | |
| | Charge method | | 3-stages: CC(Constant Current), CV(Constant Voltage), CF(Floating Charge) | | | | |
| | Output voltage stability accuracy | | ≤ ±0.2V | | | | |
| LOAD Characteristics | Load voltage | | Same as battery voltage. | | | | |
| | Rated load current | | 20A | | 30A | | |
| | Load control mode | | On\Off mode, PV voltage control mode, Dual-time control mode, PV + Time control mode | | | | |
| | Low voltage protection | | 10.5V(default), 11V(restored), settable | | | | |
| | Setting method | | PC software / APP / Controller | | | | |
| Display & Communication | Display | | High-definition LCD segment code backlight display | | | | |
| | Communication | | Dual RJ45 port / RS485 protocol / PC (via RS485-USB Cable) & APP (via Wi-Fi module) / Centralized monitoring (via parallel connection and RS485-USB cable) | | | | |
| Other Parameters | Protection | | Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc. | | | | |
| | Operating ambient temperature | | -20℃~+50℃ | | | | |
| | Storage temperature | | -40℃~+75℃ | | | | |
| | IP(Ingress protection) | | IP43 | | | | |
| | Noise | | ≤10dB | | | | |
| | Altitude | | 0~3000m | | | | |
| | Max. Wiring size | | 28mm² | | | | |
| | Recommended breaker | | ≥40A | ≥63A | ≥63A | ≥100A | ≥100A |
| | N.weight (kg) / G.weight (kg) | | 1.65 / 1.98 | | 2.35 / 2.78 | | |
| | Product size / Packing size(mm) | | 220×148×58.5/289×212×105 | | 245×170×63.5/334×255×123 | | |

Mission: To romote the new energy development, create the best value to customer, help partners to achieve self

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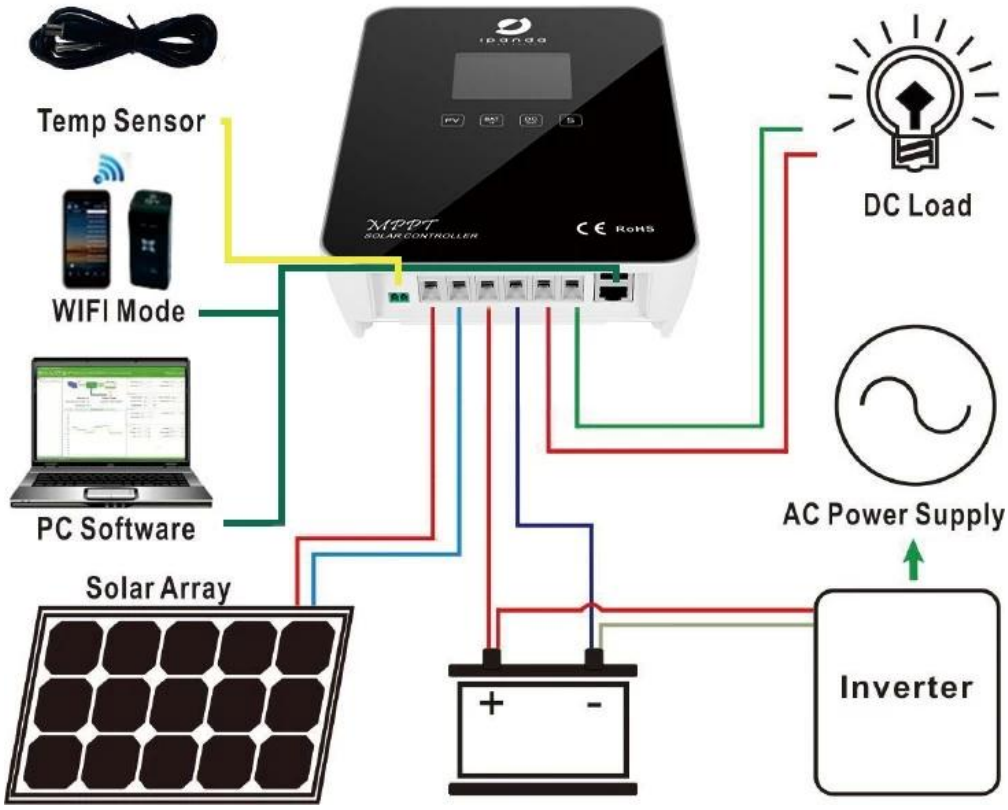
## Systeem aansluitschema




## Opmerkingen:

1. Het bovenstaande zijn de standaardparameters van het bedrijf. Als er wijzigingen zijn, kijk dan op onze officiële website;
2. Ons bedrijf kan niet-conventionele MPPT-controllers aanpassen voor klanten en OEM- en ODM-services bieden;
3. [**Klik om de specificatie te downloaden**]