

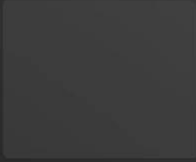
I-Panda 20A-60A MPPT



[MPPT-M](#)

MPPT

- 1 IP43
- 2
- 3 4
- 4 99.8
- 5
- 6 APP
- 7



PV

BAT
vF

DC
500m

S

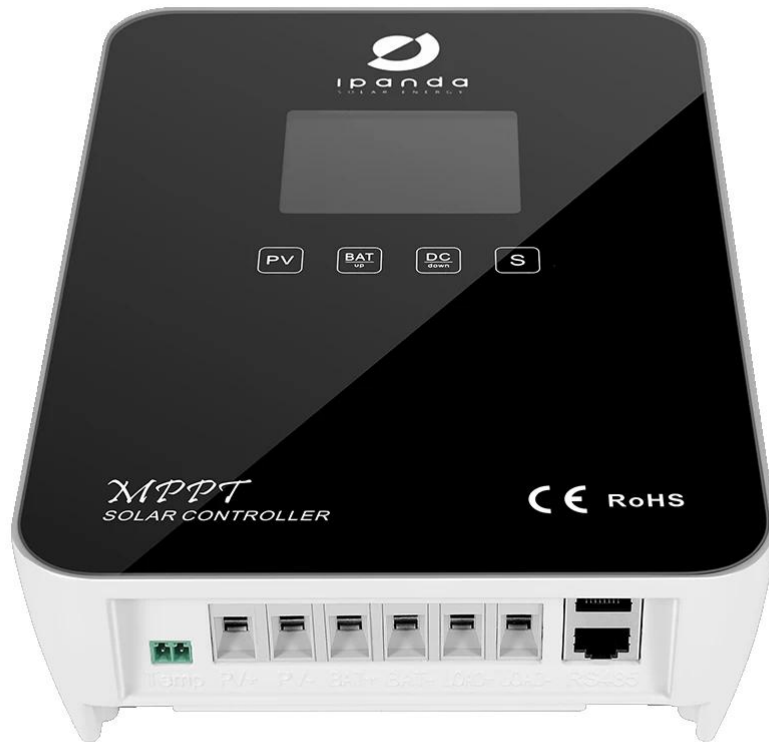
MPPT
SOLAR CONTROLLER

CE RoHS









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- * MPPT MPPT ≥ 99.5
- * / /
- * 4 ON / OFF PV
- PV +
- *
- *
- * IP43
- * LCD
- *
- * RS485
- * PC APP Android iOS
- * CE RoHS FCC

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| | 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), DC 150V(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 |
| 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/C/2V (default) | | | | |
| | Charge method | 3-stages: CC(Constant Current), CV(Constant Voltage), CF(Floating Charge) | | | | |
| LOAD Characteristics | Output voltage stability accuracy | ±0.2V | | | | |
| | 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 | | | | |
| Display & Communication | Setting method | PC software / APP / Controller | | | | |
| | Display | High-definition LCD segment code backlight display | | | | |
| Other Parameters | 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) | | | | |
| | Protection | Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc. | | | | |
| | Operating ambient temperature | -20°C~+50°C | | | | |
| | Storage temperature | -40°C~+75°C | | | | |
| | IP(Ingress protection) | IP43 | | | | |
| | Noise | ≤10dB | | | | |
| | Altitude | 0~3000m | | | | |
| | Max. Wiring size | 28mm ² | | | | |
| | 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 | | | |

