I-Panda new generation MPPT solar controller 20A-60A



Explorer-M 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 IP43
- 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.







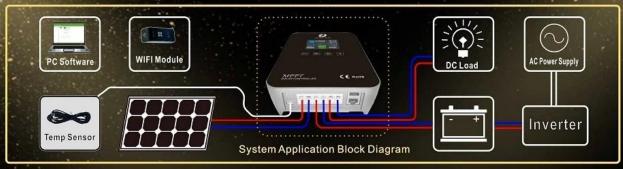




Characteristics

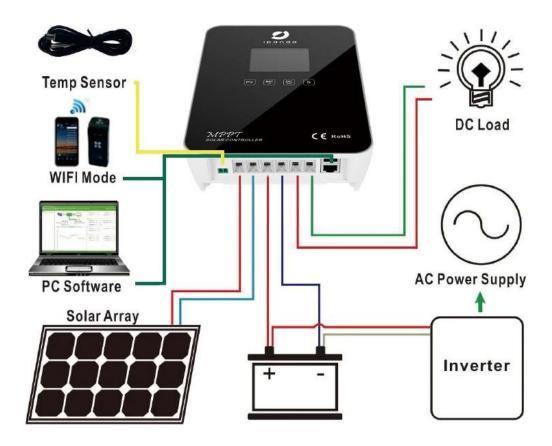
- * High-efficient MPPT algorithm, MPPT efficiency ≥99.5%.
- * Support Seal/Gel/Flooded battery and customized batteries.
- * Four types of load mode selection: ON/OFF, PV voltage control, Dual Time control, PV+Time control.
- * All-in-one integrated design, high stability and reliability.
- * Current-limited charging function.
- * IP43 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



	Model		EM2420	EM2430	EM2440	EM2450	EM2460
Product Category	MPPT efficiency		≥ 99.5%				
	Standby consumption		0.5W~1.2W				
	Heat-dissipating method		Natural-Cooling				
	12V system		9VDC~15VDC(Lead acid)				
	Battery system - voltage range -	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		200-0-0-0-0	504W~1008W		*******
	Activation for lit	terreto i en les de les s	23277 30477	37000 73000	Optional	03011 120011	13000 1312
Charge Characteristics	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)				
	Output voltage stability accuracy		≤±0.2V				
LOAD Characteristics			≤±0,2V Same as battery voltage.				
	Load voltage Rated load current		Same as battery voltage.				
	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°C∞+50°C				
	Storage temperature		-40°C∼+75°C				
	IP(Ingress protection)		IP43 -				
	Noise		≤10dB				
	Altitude		0~3000m				
	Max. Wiring size		28mm²				
	Recommended breaker		≥40A	≥63A	≥63A	≥100A	FIRE SHOWING ASSESSMENT
	N.weight (kg)/C	With the property of the second	· · · · · · · · · · · · · · · · · · ·	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P		2.35 / 2.78	2007
	THE RESERVE AND ADDRESS OF THE PARTY OF THE		1.65 / 1.98 2.35 / 2.78 220×148×58.5 / 289×212×105 245×170×63.5 / 334×255×123				

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]