爱熊猫新一代电压12V / 24V MPPT太阳能控制器

ipanda
SOLAR ENERGY
PV
BAT
up
DC
down
S
WARNING
Do Not Touch
So As Not To Burn
MPPT
SOLAR CONTROLLER
CE RoHS

探险家 发展太阳视野，使大自然更美丽，更高效

新一代MPPT太阳能智能数字控制器

1，自发热，防水等级IP43
2，美观的设计，触摸式按键，内外维修
3，四阶段充电，延长电池寿命
4，跟踪效率高达99.8%
5，完善的保护功能
6，可以扩展APP，主机和无限并行
7，可以监视整个系统状态，确定系统匹配情况等

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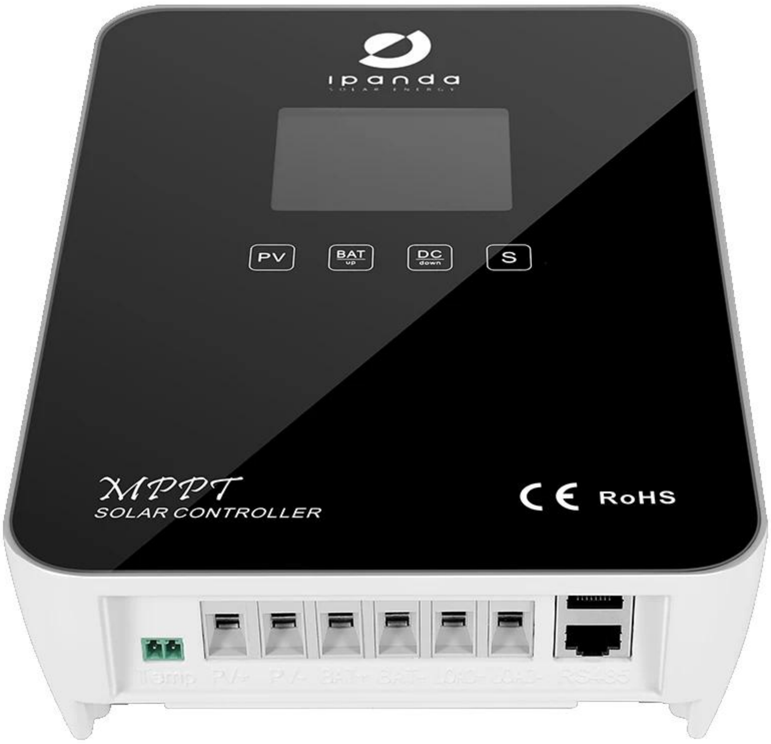
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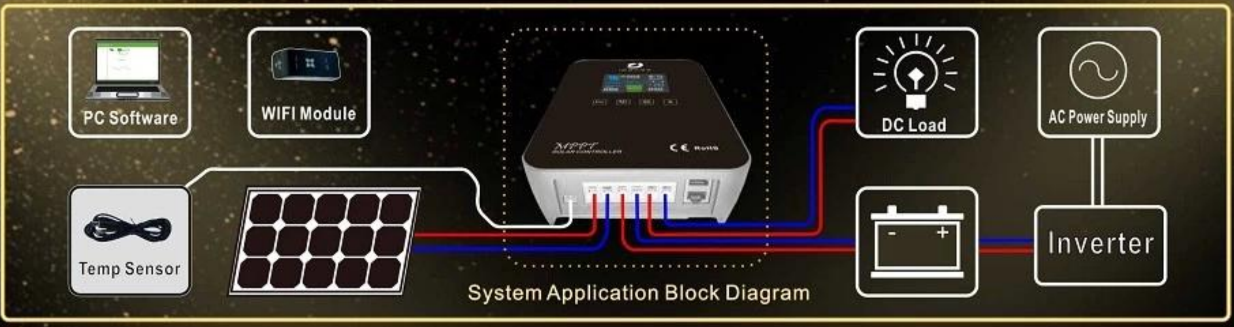
Temp PV+ PV- BAT+ BAT- LOAD+ LOAD- RS485

特点

*高效的MPPT算法，MPPT效率≥99.5%。
*支持密封/凝胶/充液电池和定制电池。
*四种负载模式选择：ON / OFF，PV电压控制，
双时间控制，PV +时间控制。
*多合一的集成设计，高稳定性和可靠性。
*限流充电功能。
* IP43防护，自然冷却。
*高清晰度LCD段显示。
*智能互动体验。
*双RS485通讯端口，支持并行通讯。
*支持PC和APP（Android和iOS）监控。
*获得CE，RoHS，FCC认证。

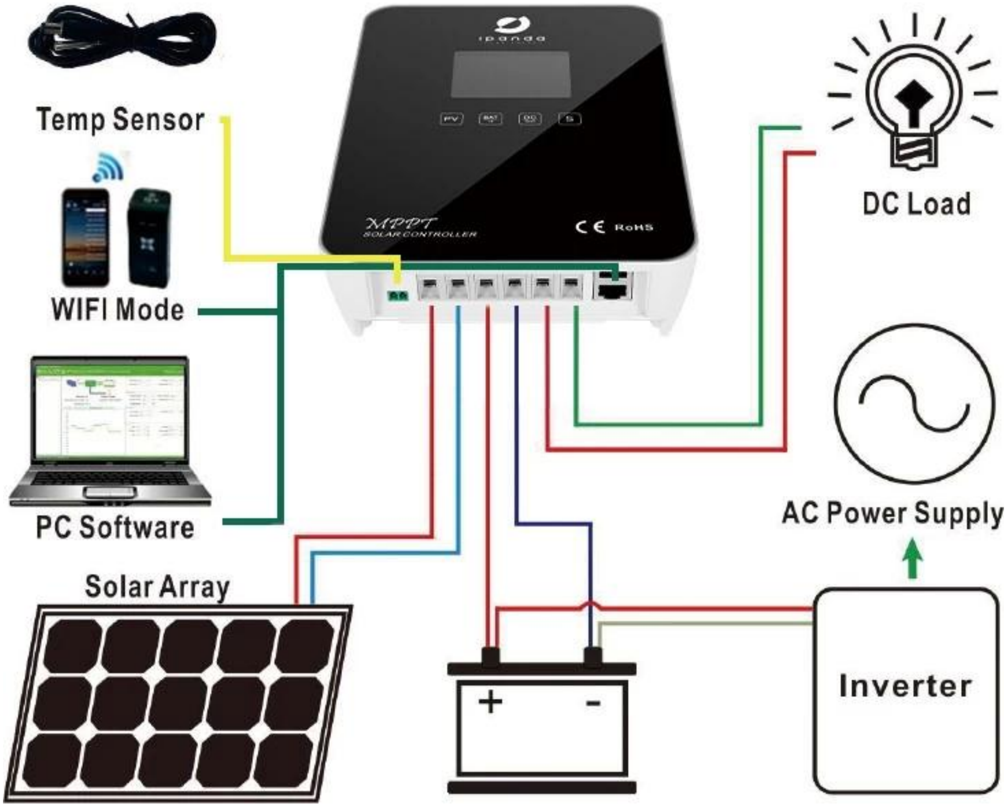
参数



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		

系统连接图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SOLAR CONTROLLER
CE RoHS
Temp Sensor
WIFI Mode
PC Software
Solar Array
DC Load
AC Power Supply
Inverter
+
-

备注:

1.以上是公司的标准参数。如果有任何变化，请检查我们的官方网站;

2.我公司可以为客户定制非常规的MPPT控制器，并提供OEM和ODM服务;

3. [点击下载规格]