



ipanda

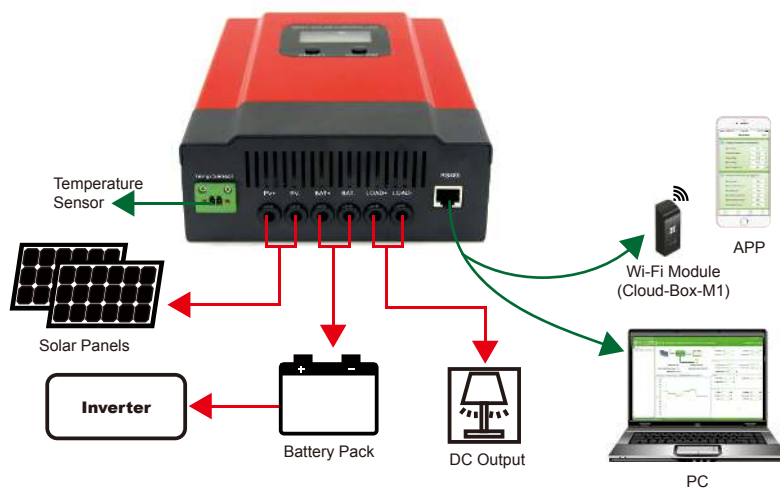
MPPT Solar Charge Controller



MPPT SOLAR CHARGE CONTROLLER

Features:

- ✧ High-efficient MPPT algorithm, conversion rate $\geq 99.5\%$
- ✧ Auto-recognition of battery system voltage
- ✧ Support Seal/Gel/Flooded /Lithium-ion battery
- ✧ Three stages charging mode: CC, CV, CF
- ✧ Current-limited charging function
- ✧ Various electronic protections
- ✧ High definition LCD segment display
- ✧ RS485 communication port
- ✧ Support PC and APP (Android & iOS) monitoring
- ✧ CE, RoHS, FCC certifications approved
- ✧ 24 months warranty, life-time free technical support



Standard accessories



✧ Screw driver



✧ User manual



✧ Temperature sensor



✧ Hang bracket

Optional accessories



RS485-USB cable



Wi-Fi module

More colors and functions can be customized (OEM/ODM)

eSmart Series			eSmart-20A	eSmart-30A	eSmart-40A	eSmart-50A	eSmart-60A
Product Category	Controller Properties		MPPT (Maximum Power Point Tracking)				
	MPPT Efficiency		≥99.5%				
	Standby Power		0.5W-1.2W				
	System Voltage		Auto-recognition				
	Heat-dissipation		Fan-cooling				
Input Charateristics	Max. PV Input Volt Point		DC150V				
	Start Charge Volt Point		Battery Voltage +3V				
	Low Input Volt Protection Point		Battery Voltage +2V				
	Over Voltage Protection Point		DC150V				
	PV Rated Power	12V System	260W	390W	520W	650W	780W
		24V System	520W	780W	1040W	1300W	1560W
		36V System	780W	1170W	1560W	1950W	2340W
		48V System	1040W	1560W	2080W	2600W	3120W
Charge Charateristics	Battery Types		Gel battery (Default), Sealed lead-acid battery, Flooded battery, User-defined				
	Rated Charge Current		20A	30A	40A	50A	60A
	Charge Method		3 stages: CC (Constant Current), CV (Constant Voltage), CF (Floating Charge)				
Load Charateristics	Load Voltage		Same as battery voltage				
	Rated Load Current		40A			60A	
	Load Control Mode		On, Off, PV control, Dual time control, PV+Time control				
Display & Communication	Display		High definition LCD segment backlight display				
	Communication		8Pin RS485 for PC and APP				
Others	Protections		Input over/low voltage, output over/low voltage, reverse connection, over temperature, short circuit, battery shedding etc.				
	Operation Temperature		-20 ℃ - +50 ℃				
	Storage Temperature		-40 ℃ - +75 ℃				
	IP (Ingress Protection)		IP21				
	Max. Connection Cable		20 MM ²			30 MM ²	
	Net Weight (KG)		2.3			2.6	
	Gross Weight (KG)		3.0			3.5	
	Product Size (MM)		240*168*66			270*180*85	
	Packing Size (MM)		289*204*101			324*223*135	