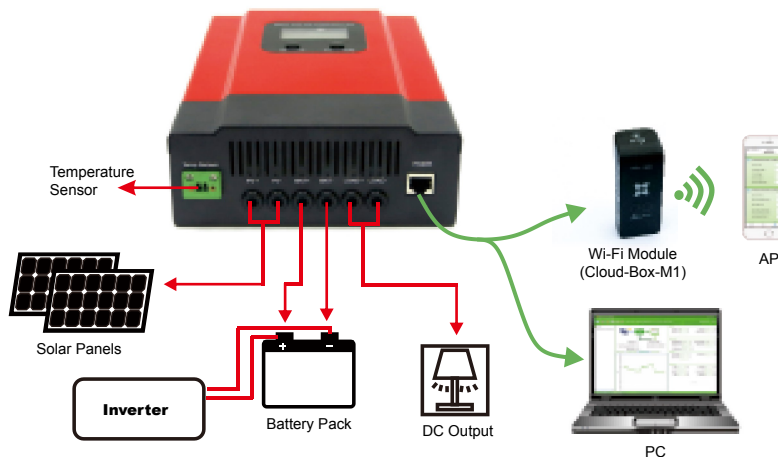


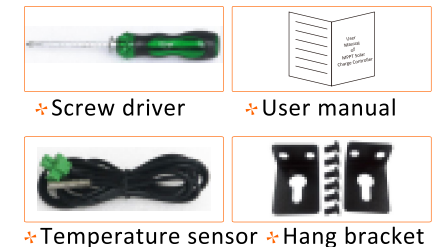
MPPT SOLAR CHARGE CONTROLLER

Features:

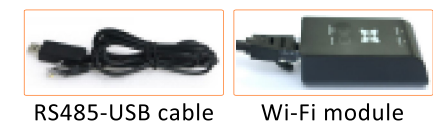
- ✦ High-efficient MPPT algorithm, conversion rate $\geq 99.5\%$
- ✦ Auto-recognition of battery system (voltage)
- ✦ Support Seal/Gel/Flooded battery and customized batteries
- ✦ Three stages charging mode: CC, CV, CF
- ✦ Current-limited charging function
- ✦ Various electronic protections
- ✦ High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



Standard accessories



Optional accessories



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

Images are for reference only, please be subject to actual products.

| 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 Characteristics | 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 |
| 24V System | | 520W | 780W | 1040W | 1300W | 1560W |
| 36V System | | 780W | 1170W | 1560W | 1950W | 2340W |
| 48V System | | 1040W | 1560W | 2080W | 2600W | 3120W |
| Charge Characteristics | 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 Characteristics | 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 C - +50 C | | | | |
| | Storage Temperature | -40 C - +75 C | | | | |
| | 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 | | |