



ES-SIMPLE 10A,20A 12/24V Solar Charge Controller

ES-SIMPLE series are specially designed for small photovoltaic systems for street lighting, camping, caravan, boats, etc .. They have a system control microprocessor, that provides all the load regulating functions and fully covers the most demanding applications. They are made with excellent quality and high-tech materials.

► Features

- > Intelligent control by using microprocessor and dedicated control calculation
- > 12 / 24V auto setting.
- > High efficiency PWM series charging with temperature compensation.
- > Use of MOSFET as electronic switch, no mechanical switch.
- > Detects day and night using the PV array.
- > Battery and load status indication.
- > Electronic Protections: overcharge, overdischarge, overload and short-circuit.

► Applications

- > Ideal for standalone solar light, controled with timer and night mode.
- > Street solar lighting system.
- > Garden solar lighting system.
- > Solar electronic billboards.
- > Ideal for stand-alone solar systems up to 120W for 12V systems or up to 270W for 24V systems (for CC1024 double for CC2024)

► Technical Characteristics

Type	CC1024	CC2024
Rated System Voltage	12 V / 24 V	12 V / 24 V
Max Charge Current	10 A	20 A
PV Array Voltage	≤ 46 V	≤ 46 V
Overvoltage Protection	17 V ; x2/24V	17 V ; x2/24V
Self Consumption	< 5 mA	< 5 mA
Boost Charge Voltage	13.6 V ; x2 / 24 V	13.6 V ; x2 / 24 V
Charge Recover Voltage	13.2 V ; x2 / 24 V	13.2 V ; x2 / 24 V
Low Voltage Reconnect	12.5 V ; x2 / 24 V	12.5 V ; x2 / 24 V
Low Voltage Alarm	12.0 V ; x2 / 24 V	12.0 V ; x2 / 24 V
Low Voltage Disconnect	11.1 V ; x2 / 24 V	11.1 V ; x2 / 24 V
Operating Temperature	-35 °C to +65 °C	-35 °C to +65 °C

* Specifications could be subject to change without any prior notice.

* ECO//SUN is not responsible for any print errors

*This version replaces all previous ones

V16.0303