

CHARGE CONTROLLER PWM 12V FOR PHOTOVOLTAÏC SOLAR PANELS AND BATTERIES WITH USB OUTPUT INTERFACE



LS0512EU
LS1012EU



Introduction:

This range of charge regulators is ideal for the implementation of small solar installations equipped with small power photovoltaic panels (5W to 50W) and 12V rechargeable batteries (1.3Ah to 18 Ah or more). The installation allows you to directly connect a lighting system with 12V bulbs, or to use the USB output to charge a mobile phone. Other devices can also be used by connecting them to the battery, such as water pumps, electric gates, alarms, road signs, boats, motorhomes, weather stations, electronic projects, or any other devices requiring installation on isolated sites. Detailed assembly user manual is provided. These charge regulators are used to regulate the voltage and current of the photovoltaic panel, which is variable according to the intensity of the sun, in order to provide a constant voltage to the battery and to optimize its recharging and longevity. These economical PWM charge controllers combine ease of use and advanced technology. They operate fully automatically and do not require any particular settings, except the selection of the type of batteries used (Sealed, gel, flooded). They are also equipped with 4 LEDs indicating the battery charge level, and a protection against overloading or reverse polarity.

Hardware & Electrical specifications:

Reference	LS0512EU	LS1012EU
Power solar panel	5W / 10W / 20W	30W / 50W
Nominal system voltage	12Vdc	12Vdc
Voltage solar panel	0V to 30V	0V to 30V
Voltage battery	8V to 16V	8V to 16V
Self-consumption	5 mA	5 mA
Charge output interface	12Vdc / 5A	12Vdc / 10A
USB output interface	5Vdc / 1,2A	5Vdc / 1,2A
Terminal cable	14AWG/2,5mm ²	12AWG/4mm ²
Humidity	< 95%	< 95%
Working temperature	-35°C to +55°C	-35°C to +55°C
Mounting hole size	4,5 mm	4,5 mm
Mounting dimension	101 mm	112 mm
Overall dimension	110 x 66 x 22 mm	121 x 67 x 23 mm
Weight	90 g	100 g
Certifications	CE / RoHS / IP20	CE / RoHS / IP20



Item include:

- 1 solar charge controller 12V (5A or 10A).
- 1 detailed instructions and assembly user manual.

Optional batteries recommended with these charges controllers:

- Battery VLRA plomb/AGM 12V-1,3Ah (Reference : UL12V-1.3AH).
- Battery VLRA plomb/AGM 12V-2,4Ah (Reference : UL12V-2.4AH).
- Battery VLRA plomb/AGM 12V-3,4Ah (Reference : UL12V-3.4AH).
- Battery VLRA plomb/AGM 12V-7,2Ah (Reference : UL12V-7.2AH).
- Battery VLRA plomb/AGM 12V-12Ah (Reference : UL12V-12AH).
- Battery VLRA plomb/AGM 12V-18Ah (Reference : UL12V-18AH).