CHARGE CONTROLLER PWM 12V/24V AUTO FOR PHOTOVOLTAÏC SOLAR PANELS AND BATTERY WITH 2 USB OUTPUT INTERFACE, LCD DISPLAY AND TWILIGHT SWITCH

VS1024AU
VS2024AU

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Renewable Energy

Introduction:

This range of charge regulators is ideal for the implementation of small solar installations equipped with small power photovoltaic panels (5W to 140W) and 12V/24V 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 an LCD screen for more convenient use.
It is also possible to program the activation of the load output for 1h to 15h since sunset.
These charge controllers are also equipped with a protection against overloading or reverse polarity.

Hardware & Electrical specifications:

Reference	VS1024AU	VS2024AU
Power solar panel	5W to 50W	80W to 140W
Nominal system voltage	12Vdc/24Vdc	12Vdc/24Vdc
Voltage solar panel	0V to 50V	0V to 50V
Voltage battery	9V to 32V	9V to 32V
Self-consumption	12 mA	12 mA
Charge output interface	12Vdc / 10A	12Vdc / 20A
USB output interface	2 x (5Vdc / 1,2A)	2 x (5Vdc / 1,2A)
Twilight switch	1h to 15h prog.	1h to 15h prog.
Optional remote	T° sensor	T° sensor
Terminal cable	12AWG/4mm2	8AWG/10mm2
Humidity	< 95%	< 95%
Working temperature	-25°C to +55°C	-25°C to +55°C
Mounting hole size	4,5 mm	4,5 mm
Mounting dimension	130 x 60 mm	148 x 70 mm
Overall dimension	142 x 85 x 42 mm	160 x 95 x 50 mm
Weight	220 g	350 g
Certifications	CE / RoHS / IP30	CE / RoHS / IP30

Item include:
- 1 solar charge controller 12V/24V (10A or 20A).
- 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).