

MONOCRYSTALLINE PHOTOVOLTAÏC SOLAR PANEL KIT 12V WITH CHARGE CONTROLLER AND WIRING ACCESSORIES



KES12V-05W-M1
KES12V-10W-M1
KES12V-20W-M1

Introduction:

This range of monocrystalline photovoltaic solar panels kits with a power of 5W to 20W (also available in 30W or 50W), allows you to power, (with the installation of an optional battery), a lighting system with 12V bulbs, or to use the USB output to charge a mobile phone. These kits also allow you to power small devices 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.

The photovoltaic solar panels are made with monocrystalline cells thus offering a higher efficiency than polycrystalline cells and longer life. This technology is preferred in European countries and the northern hemisphere because the efficiency are better at low temperatures than for models with polycrystalline cells. These photovoltaic panels are also equipped with a sturdy aluminum frame with reinforced corners and covered with a quality weatherproof tempered glass. They also offer a neat aesthetic for a better integration in an urban environment or on a home.

The PWM charge controllers 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	KES12V-05W-M1	KES12V-10W-M1	KES12V-20W-M1
Power	5W	10W	20W
Technology	Monocrystalline	Monocrystalline	Monocrystalline
Voltage max panel	18,3 V	18,3 V	18,4 V
Current max panel	0,280 A	0,550 A	1,090 A
Dimensions panel	231 x 185 x 17mm	304 x 270 x 25 mm	370 x 345 x 25 mm
Weight	0,510 Kg	1,050 Kg	1,510 Kg
Junction box	IP44	IP44	IP44
Charge output charger	12Vdc / 5A	12Vdc / 5A	12Vdc / 5A
USB output charger	5Vdc / 1,2A	5Vdc / 1,2A	5Vdc / 1,2A
Terminal cable charger	12AWG/4mm2	12AWG/4mm2	12AWG/4mm2
Working temperature	-35°C à +55°C	-35°C à +55°C	-35°C à +55°C
Certifications	CE / TUV / IEC61730	CE / TUV / IEC61730	CE / TUV / IEC61730



Items included:

- 1 monocrystalline photovoltaic solar panel.
- 1 solar charge controller 12V/5A with USB interface.
- 5m of electrical cable 2x2,5 mm² red/black.
- 2 insulated 6,35mm fastons terminals for battery.
- 2 insulated round terminals Ø 5mm for battery.
- 4 terminals for connection cables.
- 8 cable ties and 8 adhesive bases.
- 1 detailed instructions and assembly user manual.

Optional batteries recommended with these kits:

- Battery VLRA plomb/AGM 12V-7,2Ah (Reference : UL12V- 7.2AH).
=> for photovoltaic solar panel kit 5W.
- Battery VLRA plomb/AGM 12V-12Ah (Reference : UL12V-12AH).
=> for photovoltaic solar panel kit 10W.
- Battery VLRA plomb/AGM 12V-18Ah (Reference : UL12V-18AH).
=> for photovoltaic solar panel kit 20W.