

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



KES12V-30W-M1
KES12V-50W-M1

Introduction:

This range of monocrystalline photovoltaic solar panels kits with a power of 30W or 50W (also available in 10W or 20W), allows you to directly powered a lighting system with 12V bulbs, or to use the USB output to charge a mobile phone. These kits also allows you (with the installation of an optional battery), 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-30W-M1	KES12V-50W-M1
Power	30W	50W
Technology	Monocrystalline	Monocrystalline
Voltage max panel	18,5 V	18,5 V
Current max panel	1,640 A	2,720 A
Dimensions panel	455 x 510 x 25 mm	460 x 670 x 35mm
Weight	2,700 Kg	3,900 Kg
Junction box	IP65	IP65
Charge output charger	12Vdc / 10A	12Vdc / 10A
USB output charger	5Vdc / 1,2A	5Vdc / 1,2A
Terminal cable charger	12AWG/4mm2	12AWG/4mm2
Working temperature	-35°C à +55°C	-35°C à +55°C
Certifications	CE / TUV / IEC61730	CE / TUV / IEC61730



Items included:

- 1 monocrystalline photovoltaic solar panel.
- 1 solar charge controller 12V/10A with USB interface.
- 5 m of red solar cable, diameter 4mm2.
- 5 m of black solar cable, diameter 4mm2.
- 1 pair of MC4 solar connectors.
- 1 cord 1,5m for battery with round terminals Ø 5mm.
- 1 detailed instructions and assembly user manual.

Optional batteries recommended with these kits:

- Battery VLRA plomb/AGM 12V-26Ah (Reference : UL12V-26AH).
=> for photovoltaic solar panel kit 30W
- Battery VLRA plomb/AGM 12V-40Ah (Reference : UL12V-40AH).
=> for photovoltaic solar panel kit 50W.