

# MONOCRYSTALLIN PHOTOVOLTAÏC SOLAR PANELS 12V

## POWERS : 5W / 10W / 20W / 30W / 50W



PSM-12V-5W  
 PSM-12V-10W  
 PSM-12V-20W  
 PSM-12V-30W  
 PSM-12V-50W

### Introduction:

This range of monocrystalline photovoltaic solar panels with a power of 5W to 50W is ideal for the operation of small installations such as lighting with 12V bulbs, pumping system, electric gate, alarms, road signs, boats, camper vans, weather station, electronic projects, or any other installations located on isolated sites.

These 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 5W / 10W / 20W models are equipped with an IP44 junction box and the 30W / 50W models are equipped with an IP65 junction box with cable glands and two 90 cm red and black cables with MC4 connectors.

### Hardware & Electrical specifications:

Reference	PSM-12V-5W	PSM-12V-10W	PSM-12V-20W	PSM-12V-30W	PSM-12V-50W
Power	5W	10W	20W	30W	50W
Technology	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline	Monocrystalline
Voltage max	18,3 V	18,3 V	18,4 V	18,5 V	18,5 V
Voltage open	22,5 V	22,5 V	22,5 V	22,8 V	22,8 V
Current max	0,280 A	0,550 A	1,090 A	1,640 A	2,720 A
Current SC	0,300 A	0,590 A	1,140 A	1,750 A	2,920 A
Dimensions (HxI)	231 x 185 mm	304 x 270 mm	370 x 345 mm	455 x 510 mm	460 x 670 mm
Thickness	17 mm	25 mm	25 mm	25 mm	35 mm
Weight	0,510 Kg	1,050 Kg	1,510 Kg	2,700 Kg	3,900 Kg
Operations T°	-35°C to +55°C	-35°C to +55°C	-35°C to +55°C	-35°C to +55°C	-35°C to +55°C
Junction box	IP44	IP44	IP44	IP65	IP65
Certifications	CE / TUV / IEC61730	CE / TUV / IEC61730	CE / TUV / IEC61730	CE / TUV / IEC61730	CE / TUV / IEC61730

### Items included:

- Photovoltaic solar panel.
- Pair of red and black cable 90 cm, with MC4 connectors (30W and 50W).
- Cardboard and bubble wrap packaging.

