

EL[®]MARK

The Brand of Electricity

FLEX MONOCRYSTALLINE SOLAR PANEL 240W, 2,1KG

19,87% EFFICEIENCY



TECHNICAL SPECIFICATION

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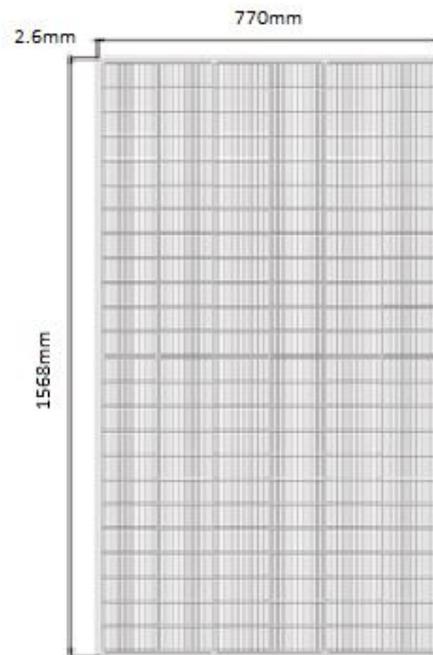
SOLAR PANELS

Flexible solar panels are a type of photovoltaic module designed to be lightweight, thin, and bendable, unlike traditional rigid solar panels. They are also known as thin-film solar panels or flexible solar cells. These panels use thin semiconductor materials, such as amorphous silicon (a-Si), which can be deposited on flexible substrates like plastic, metal, or even fabric.

Catalog number: 98SOL240FM

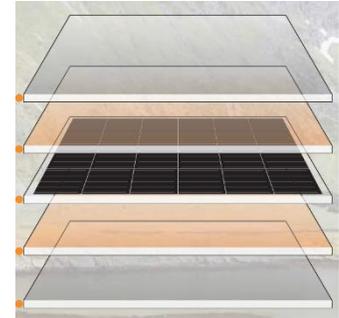
SPECIFICATION:

- Standard Test Conditions (STC)
- Irradiance 1000 W/m², AM 1.5, and cell temperature of 25°C
- Peak power (P_{max}): 240W
- Maximum power voltage (V_{mp}): 40.40V
- Maximum power current (I_{mp}): 5.95A
- Open circuit voltage (V_{oc}): 48.60V
- Short circuit current (I_{sc}): 6.30A
- Module efficiency (%): 19.87%
- Number of diodes: 1
- Maximum Series Fuse: 10A
- Maximum system voltage (V): 600DC
- Watts positive tolerance: 0~+3%
- Cell type: Monocrystalline silicon
- Number of cells: 182(4x18)
- Dimensions HxWxD (mm): 1568x770x2.6
- Weight (kg): 2.1
- Front sheet: Transparent front sheet
- Back sheet: TPT
- Junction box (protection degree): IP67
- Dimensions:
 - Height: 1568mm
 - Width: 770mm
 - Deep: 2.6mm



MECHANICAL DATA:

- Cell type: Monocrystalline silicon
- Number of cells: 182(4x18)
- Weight (kg): 2.1
- Junction Box: IP67 rated
- Cables and plug connectors: 2.5mm², 2x2000mm
- Content: Transparent front sheet, EVE, Solar Cell, EVA, Backsheet / TPT



TEMPERATURE CHARACTERISTICS:

- Temp. Coeff. of Isc: +0.08558%/°C
- Temp. Coeff. of Voc: -0.29506% /°C
- Temp. Coeff of Pmpp: -0.38001% /°C
- Operating temperature: -40°C+85°C
- Standard Test Conditions: 1000W/M2, 25°C, AM1.5

ADVANTAGES OF HALF CELL Bifacial SOLAR PANELS:

- Lightweight and Portable: Flexible solar panels are much lighter than traditional panels, making them ideal for portable and mobile applications. They can be easily carried and installed on boats, RVs, camping equipment, and backpacks.
- Bendable and Conformable: The flexibility of these panels allows them to bend and conform to curved surfaces. This makes them suitable for installations on irregular or contoured surfaces like vehicle roofs, arches, or structures with curved designs.
- Aesthetic Appeal: The sleek and low-profile design of flexible solar panels can be visually appealing and blend seamlessly into various structures and applications without compromising aesthetics.
- Easy Transportation and Storage: Flexible solar panels are easy to transport and store, making them suitable for temporary or emergency power needs. They can be rolled up or folded for compact storage.
- Customizable Shapes and Sizes: Manufacturers can produce flexible solar panels in various sizes and shapes, allowing for customization to fit specific project requirements.