

# EL<sup>®</sup>MARK

The Brand of Electricity

## MONOCRYSTALLINE HALF CUT CELL SOLAR PANEL



## SOLAR PANELS

Mono half cut cells Solar Panel that are cut in half. That improves the module's performance and durability. When solar cells are halved, their current is also halved, so resistive losses are lowered and the cells can produce a little more power. Smaller cells experience reduced mechanical stresses, so there is a decreased opportunity for cracking. Half-cell modules have higher output ratings and are more reliable than traditional panels.

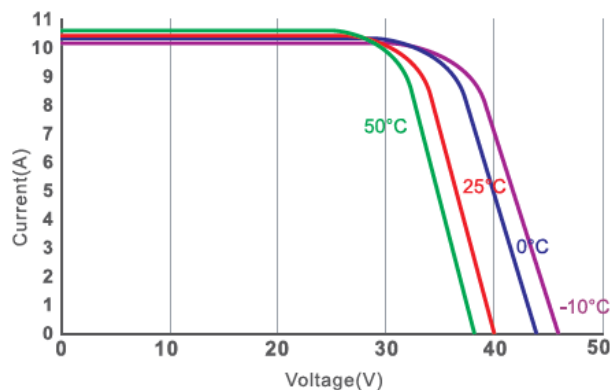
Catalogue number: 98SOL380M

### SPECIFICATION:

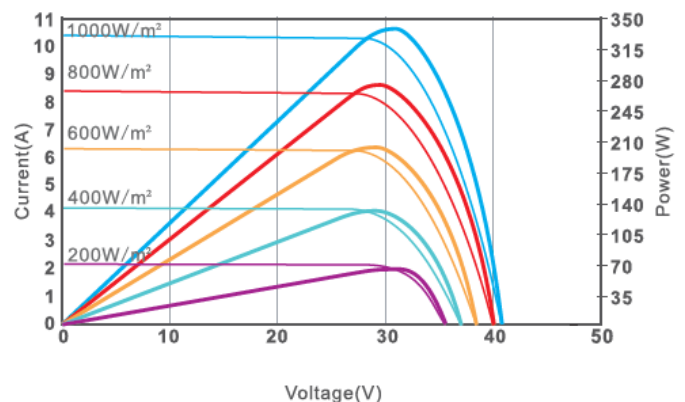
- Irradiance 1000 W/m<sup>2</sup>, AM 1.5, and cell temperature of 25°C
- Peak power (P<sub>max</sub>): 340
- Maximum power voltage (V<sub>mp</sub>): 34.40
- Maximum power current (I<sub>mp</sub>): 9.90
- Open circuit voltage (V<sub>oc</sub>): 40.50
- Short circuit current (I<sub>sc</sub>): 10.50
- Module efficiency (%): 20.2
- Maximum system voltage (V): 1500
- Power tolerance (W): 0-5
- Cell type: 158.75mm, 9BB
- Number of cells: 120 (6x10+6x10)
- Dimensions HxWxD (mm): 1689x996x35
- Weight (kg): 19.5
- Max. load (Pa): 5400
- EC Declaration of conformity

### CHARACTERISTICS AT DIFFERENT IRRADIATIONS:

CHARACTERISTICS AT DIFFERENT TEMPERATURES



CHARACTERISTICS AT DIFFERENT IRRADIATIONS



### MECHANICAL DATA:

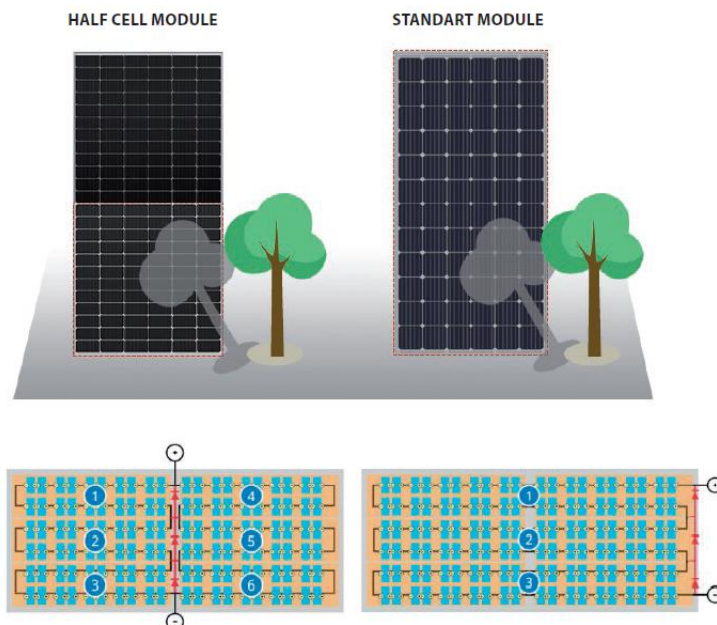
- Cell Type: 158.75mm, 9BB
- Number of Cells: 120 cells (6x10+6x10)
- Weight: 19.5kg
- Dimension: 1689x996x35mm
- Max Load: 5400 Pascals
- Junction Box: IP68 rated
- Connector: MC4 Compatible
- Wire Type: PV Wire

### TEMPERATURE CHARACTERISTICS:

- Temp. Coeff. of Isc (TK Isc): 0.04% /°C
- Temp. Coeff. of Voc (TK Voc): -0.28% /°C
- Temp. Coeff of Pmax (TK Pmax): -0.37% /°C

### ADVANTAGES OF HALF CELL SOLAR PANELS:

- It is superior in low sunlight performance.
- It is not affected by shade as much as standard panels.
- It is more durable for long life performance
- It is less susceptible to micro cracking. (cracks that develop in cells over time)
- They perform better under high heat conditions than standard solar panels.
- They are less susceptible to hot spots, a major cause of panel failure.
- They are much higher efficiency than standard panels.



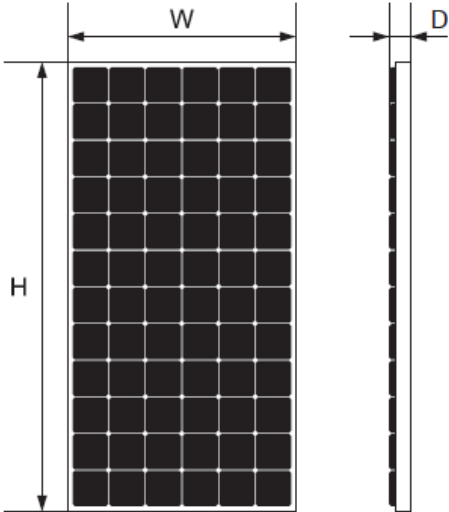
# TECHNICAL SPECIFICATION

## SOLAR PANELS

**ELMARK**<sup>®</sup>

The Brand of Electricity

### DIMENSIONS:



Catalogue number	Barcodes
98SOL380M	3800131233677

Dimensions (mm)

H	W	D
1689	996	35

