

The Brand of Electricity

MONOCRYSTALLINE HALF CUT CELL SOLAR PANEL



TECHNICAL SPECIFICATION



SOLAR PANELS

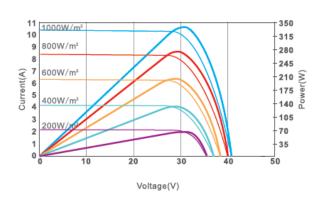
Mono half cut cells Solar Panel that are cut in half. That improves the module's performance and durability. When solar cells are halved, their current is also halved, so resistive losses are lowered and the cells can produce a little more power. Smaller cells experience reduced mechanical stresses,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

SPECIFICATION:

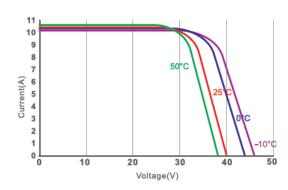
- Irradiance 1000 W/m2, AM 1.5, gand cell temperature of 25°C
- Peack power (Pmax): 410
- Maximum power voltage (Vmp): 34.89
- Maximum power current (Imp): 11.76
- Open circuit voltage (Voc): 41.90
- Short circuit current (Isc): 12.47
- Module efficiency (%): 21.3
- Maximum system voltage (V): 1500
- Number of cells: 120 (5x12+5x12)
- Dimensions HxWxD (mm): 1754x1096x30
- Weight (kg): 21
- Max. load (Pa): 5400
- EC Declaration of conformity
- Catalogue number: 98SOL410M

CHARACTERISTICS AT DIFFERENT IRRADIATIONS:

CHARACTERISTICS AT DIFFERENT IRRADIATIONS



CHARACTERISTICS AT DIFFERENT TEMPERATURES



^{*}Note: the specifications are obtained under the Standard Test Conditions (STCs): 1000W/m² solar irradiance, 1.5 Air Mass, and cell temperature of 25°C.

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MECHNICAL DATA:

Cell Type: 158.75mm, 9BB

Number of Cells: 120 cells (5x12+5x12)

Weight: 21kg

Dimension: 1754x1096x30mm

Max Load: 5400 PascalsJunction Box: IP68 ratedConnector: MC4 Compatible

Wire Type: PV Wire

Frame: Anodized aluminium alloy type

TEMPERATURE CHARACTERISTICS:

Nominal module operating temperature (NMOT): 44° C±2° C

Temp. Coeff. of Voc (TK Voc): -0.25% /°C

Temp. Coeff. of Isc (TK Isc): 0.04% /°C

Temp. Coeff of Pmax (TK Pmax): -0.34% /°C

Operating temperature: -40°C+85°C

FEATURES:

- High conversion efficiency: High module efficiency to guarantee power output.
- Self-cleaning glass: Coating glass for self-cleaning, reduce surface dust.
- Outstanding low irradiation performance: Excellent module efficiency even in the weak light conditions, such as morning or cloudy.
- Excellent loading capability: 2400Pa wind loads, 5400Pa snow loads.

ADVANTAGES OF HALF CELL SOLAR PANELS:

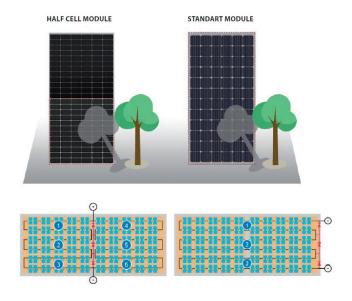
- It is superior in low sunlight performance.
- It is not affected by shade as much as standard panels.
- It is more durable for long life performance
- It is less susceptible to micro cracking. (cracks that develop in cells over time)

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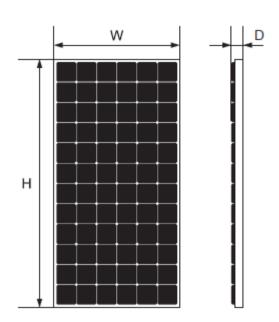


SOLAR PANELS

- 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.



DIMENSIONS:





Catalogue number	Barcodes
98SOL410M	3800131245304

Dimensions 410W (mm)

Н	W	D	
1754	1096	30	



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