ELMARK®

The Brand of Electricity

MONOCRYSTALLINE HALF-CUT CELL SOLAR PANEL 510W

TECHNICAL SPECIFICATION

SOLAR PANELS

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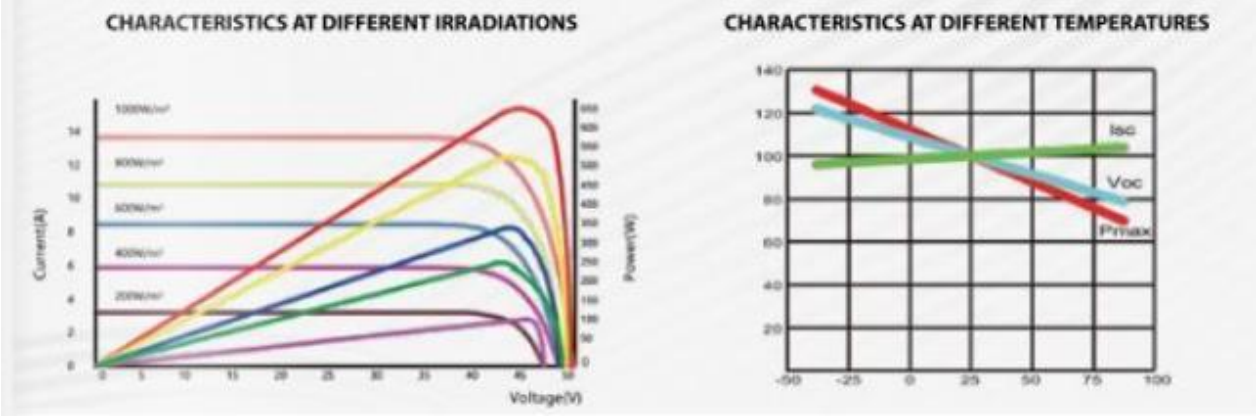
Mono half cut cells Solar Panel that are cut in half. That improves the module's performance and durability. When solar cells are halved, their current is also halved, so resistive losses are lowered and the cells can produce a little more power. Smaller cells experience reduced mechanical stresses,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

Catalogue number: 98SOL510M

SPECIFICATION:

- Peack power (Pmax): 510
- Maximum power voltage (Vmp): 38.20
- Maximum power current (Imp): 13.94A
- Open circuit voltage (Voc): 40.70V
- Short circuit current (Isc): 13.94A
- Module efficiency (%): 20.2
- Maximum system voltage (V): 1500VDC
- Reated operating temperature of the module: 41 +/- 3 degrees
- Cell type: Monocrystalline
- Connector: Compatible with MC4
- Number of cells: 132 (11x6x2)
- Dimensions HxWxD (mm): 2094x1134x35
- Weight (kg): 26
- Max. load (Pa): 5400
- EC Declaration of conformity
- Frame material: Aodised aluminium alloy type
- Distribution box on the panel: IP68

CHARACTERISTICS AT DIFFERENT IRRADIATIONS:



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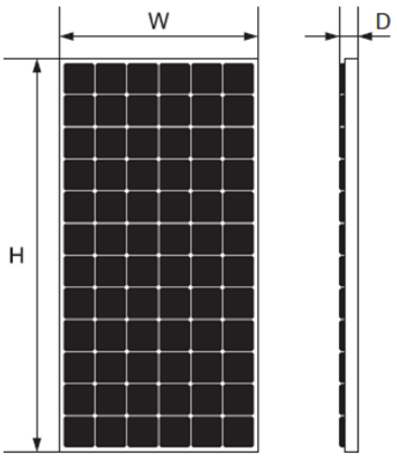
TEMPERATURE CHARACTERISTICS:

- Nominal Module Operating Temperature NMOT: 44°C +/- 2°C
- Temp.Voc coefficient (TK Voc.): -28% /°C
- Temp. Isc coefficient (TK Voc): 0.05% /°C
- Temp. Coefficient of Pmax (TK Pmax): -0.36% /°C
- Ambiend temperature: -40°C +85°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 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.

DIMENSIONS:



Catalogue number	H (mm)	W (mm)	D (mm)
98SOL510M	2094	1134	35

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