

TWIN CELL SOLAR MODULES SERIES WITH

21%
EFFICIENCY.

Now Available
Models Upto
600w+

Latest Technologies

TWIN CELL | PERC | MBB



DESIGNED TO MAXIMIZE POWER AND PERFORMANCE OVER GENERATIONS.

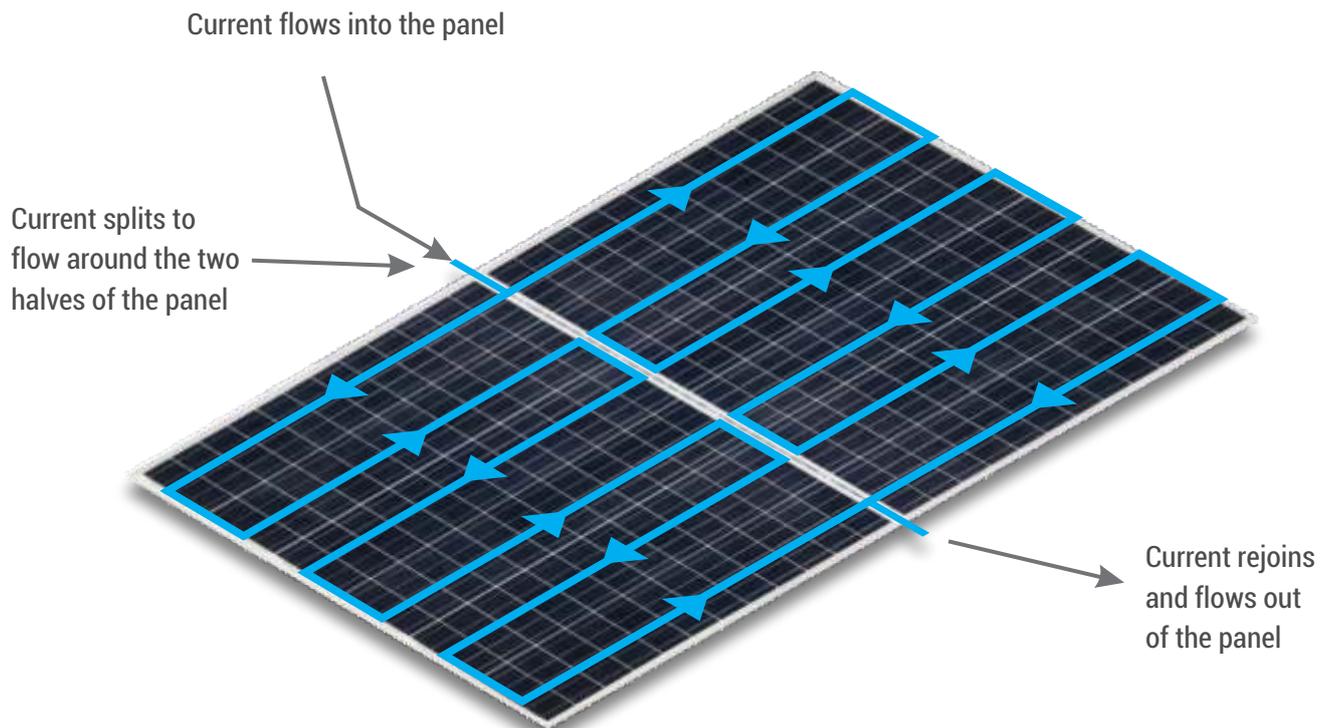
With this technology customer can boost their energy yield by generating the same power with fewer modules, or through generating higher system yield from the same surface area.

Twin cell series module are most effective and ideal choice where the space is limited and where the temperature are higher.



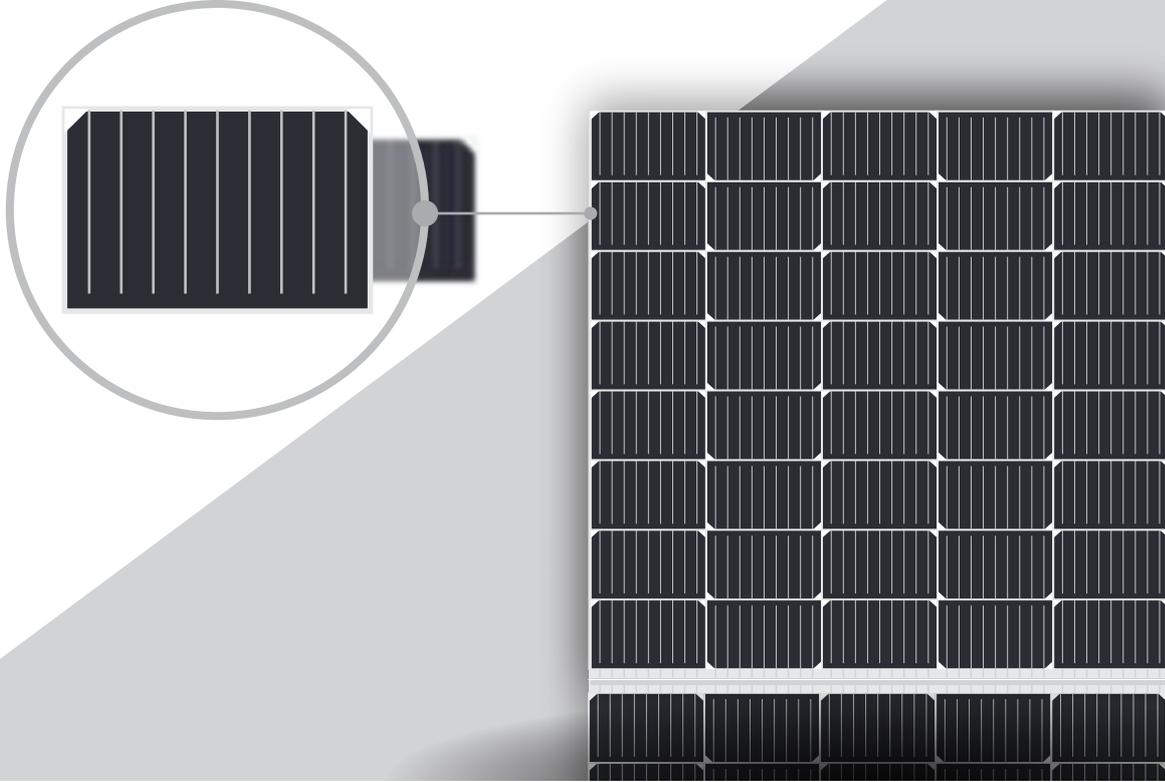
FLOW OF ELECTRICITY IN TWIN CELL SERIES SOLAR MODULES.

The twin sections reduce internal resistance and ensure continued production of energy when partially shaded.

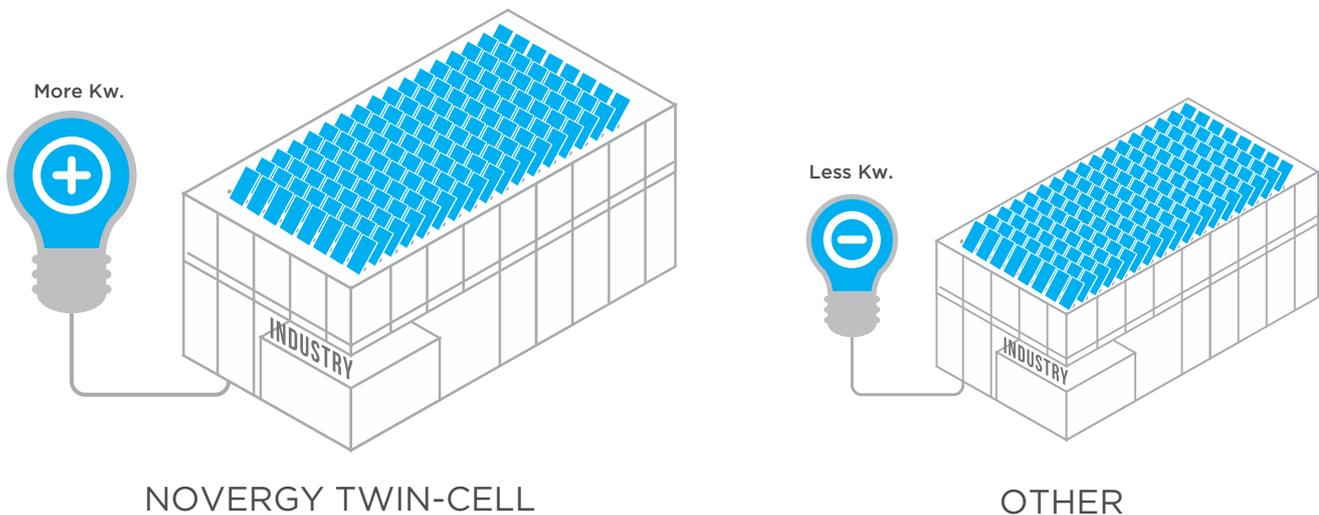


WITH MULTI-BUSBAR TECHNOLOGY (MBB)*

Our cell is equipped with a multi busbars.
It means our modules provide a higher reliability
and less internal cell resistance losses.



GENERATES MORE SOLAR POWER IN LESSER SPACE.



**On Select Models*

MORE POWER & MORE RELIABLE



Low power loss in cell connection



Better shading tolerance



Low NMOT: $42 \pm 3^{\circ}\text{C}$
Low Temperature Coefficient (Pmax): $-0.35\%/^{\circ}\text{C}$



Lower hot spot temperature

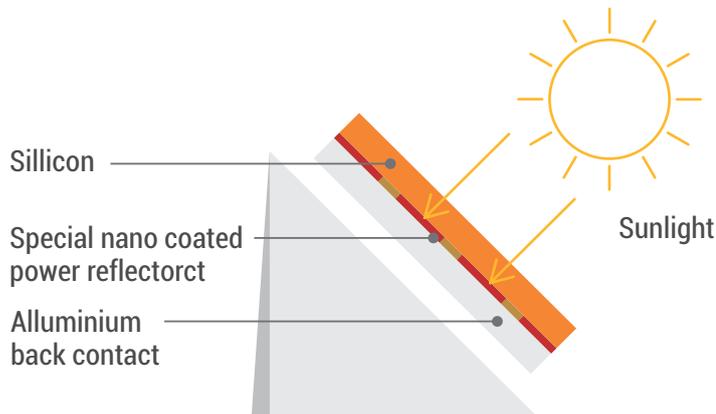


Heavy snow load up to 5400 pa,
wind load up to 3600 Pa*

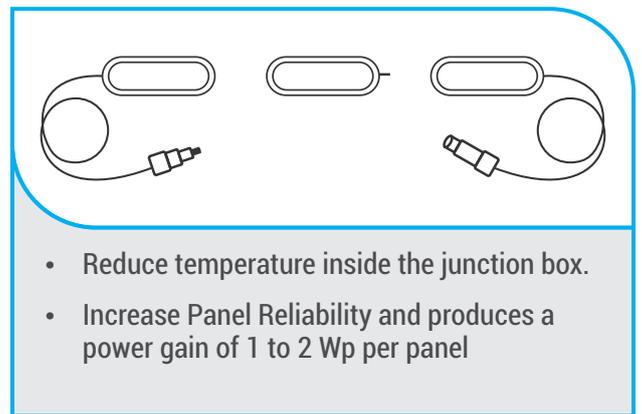


Minimizes micro-cracks

PERC SOLAR CELL



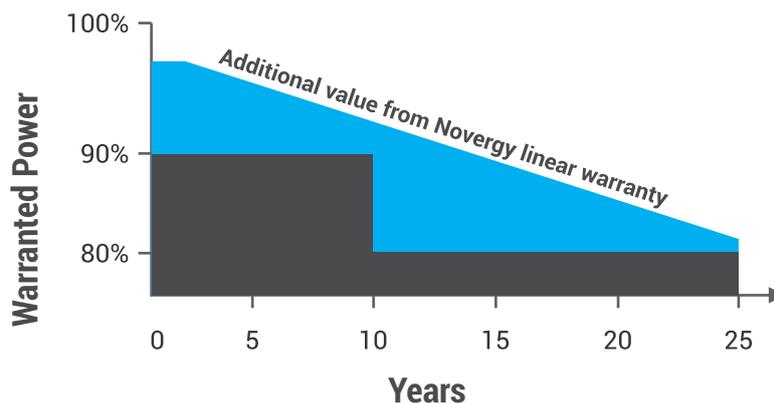
SPLIT JUNCTION BOX



25 YEARS LINEAR WARRANTY

● Novergy linear performance warranty

● Standard Warranty



10 Years Product Warranty



MONO PERC TWIN CELL SERIES

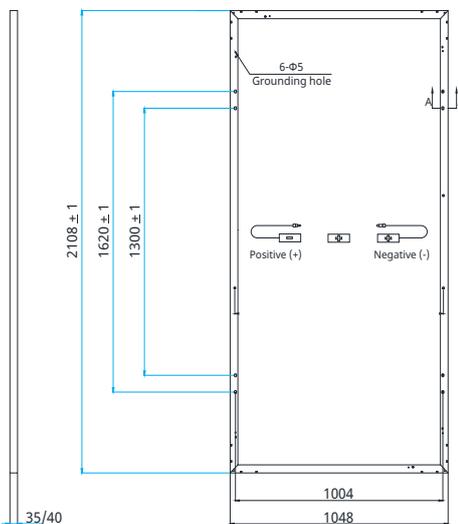
(144 Twin Cell)

MCAL-TC-Series

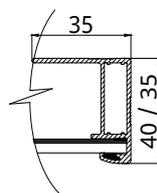
(440 - 480 wp)

| MODELS | MCAL-TC-440 | MCAL-TC-445 | MCAL-TC-450 | MCAL-TC-455 | MCAL-TC-460 | MCAL-TC-465 | MCAL-TC-470 | MCAL-TC-475 | MCAL-TC-480 |
|------------------------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Type of cells | Mono Crystalline (PERC) (166 mm) | | | | | | | | |
| numbers of cells | 144 Twin Cell | | | | | | | | |
| Wattage (Wp) | 440 | 445 | 450 | 455 | 460 | 465 | 470 | 475 | 480 |
| Voltage at max. power (Vmp) | 42.98 | 43.13 | 43.29 | 43.42 | 43.61 | 43.79 | 43.96 | 44.15 | 44.33 |
| Open circuit voltage (Voc) | 51.79 | 52.04 | 52.29 | 52.52 | 52.75 | 52.98 | 53.21 | 53.44 | 53.67 |
| Current at max. power (Imp) | 10.24 | 10.32 | 10.40 | 10.48 | 10.55 | 10.62 | 10.70 | 10.76 | 10.83 |
| Short circuit current (Isc) | 10.96 | 11.08 | 11.19 | 11.32 | 11.43 | 11.54 | 11.65 | 11.76 | 11.87 |
| Frame | Anodized Aluminium Alloy | | | | | | | | |
| Front Glass | Tempered 3.2 mm (Low iron solar glass) | | | | | | | | |
| Junction Box | IP 68 | | | | | | | | |
| Solar Cable | 4 mm ² | | | | | | | | |
| Solar Connector | MC 4 Compatible | | | | | | | | |
| Number of Diode | 3 / 6 | | | | | | | | |
| Dimensions (mm) | 2108 x 1048 x 35 / 40 | | | | | | | | |
| Max series fuse rating | 20 A | | | | | | | | |
| Weight (kg) | 22.5 | | | | | | | | |
| Operating temprature(Deg. C) | -40 Deg C to + 85 Deg C | | | | | | | | |
| Application Class | Class A | | | | | | | | |
| Maximum System Voltage | 1500 VDC | | | | | | | | |
| Temp. coefficient's | Power=0.35% / Deg. C Voltage= - 0.31% / Deg. C Current=+0.05% / Deg. C | | | | | | | | |
| NOCT | 45 +/- 2 Deg. C | | | | | | | | |
| Maximum Load | 5400 Pa | | | | | | | | |

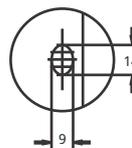
Rear View



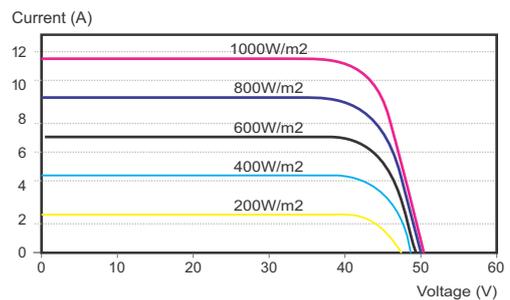
Frame Cross Section A-A



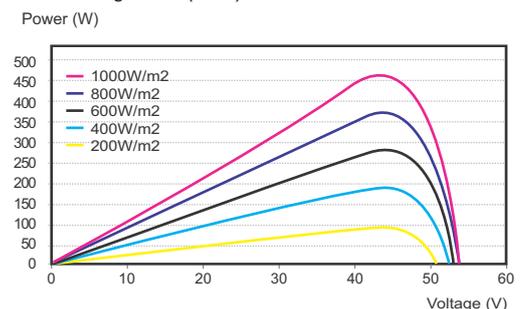
Mounting Hole



Current Voltage Curve (455W)



Power Voltage Curve (455W)



Specifications are subject to change without prior notice.

**To Get more Power and Greater Returns,
Contact Novergy Today!**

Write to enquiry@novergy.net
Visit us at novergysolar.com