# TWIN CELL<br/>SOLAR MODULES<br/>SERIES WITH21%<br/>EFFICIENCY.

Latest Technologies

TWIN CELL | PERC | MBB



# DESIGNED TO MAXIMIZE POWER AND PERFORMANCE OVER GENERATIONS.

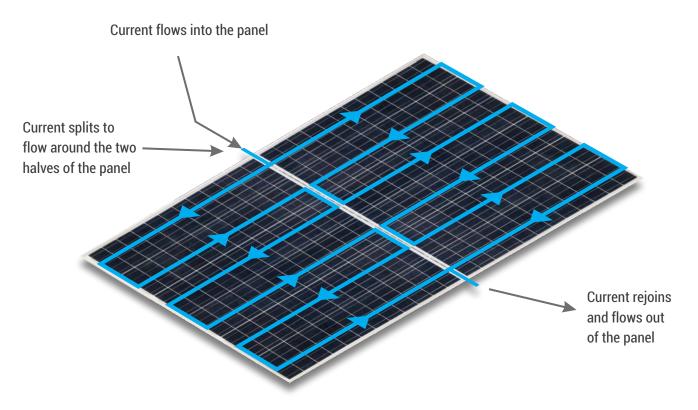
With this technology customer can boost their energy yield by generating the same power with fewer modules, or through generating higher system yield form the same surface area.

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



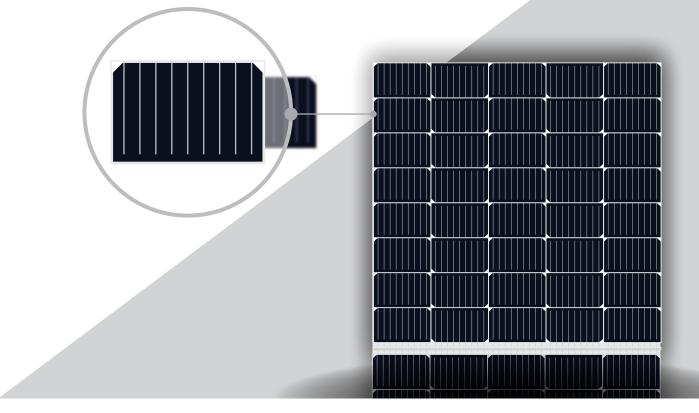
# FLOW OF ELECTRICITY IN TWIN CELL SERIES SOLAR MODULES.

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

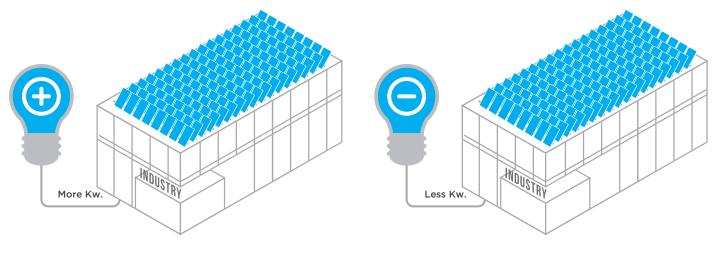


# WITH MULTI-BUSBAR TECHNOLOGY (MBB)\*

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.



Novergy

Other

## **MORE POWER & MORE RELIABLE**



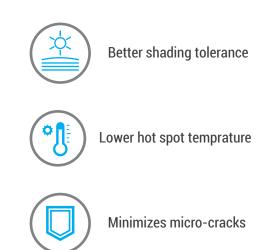
Low power loss in cell connection



Low NMOT: 42 + 3°C Low Temperature Coefficient (Pmax): -0.35%/°C



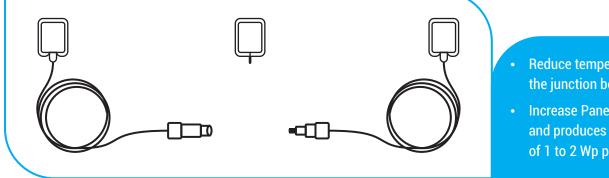
Heavy snow load up to 5400 pa, wind load up to 3600 Pa\*



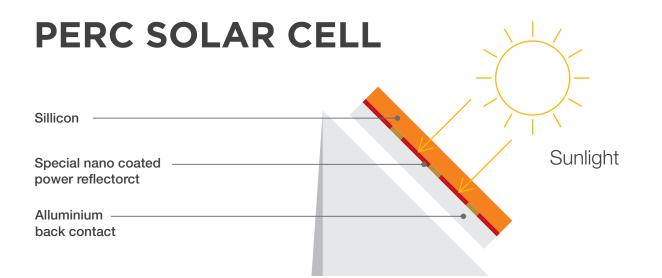


25 Year Power Output Warranty **10 Year Product Warranty** 

# **SPLIT JUNCTION BOX**



- Reduce temperature inside the junction box.
- Increase Panel Reliability and produces a power gain of 1 to 2 Wp per panel





# **MONO PERC TWIN CELL SERIES**

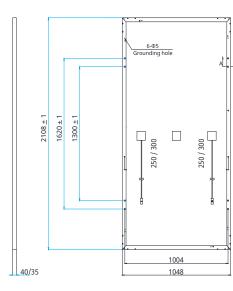
(72 Full Cells)

# **MCAL-TC-Series**

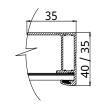
High Power Series (with Multi Busbar Technology)

Model	MCAL-TC-430	MCAL-TC-435	MCAL-TC-440	MCAL-TC-445	MCAL-TC-450	MCAL-TC-455	MCAL-TC-460	
Type of cells	Mono Crystalline (PERC)							
Numbers of cells	72 (Twin Cell)							
Wattage (Wp)	430	435	440	445	450	455	460	
Voltage at max.power (Vmax)	42.47	42.72	42.98	43.13	43.29	43.42	43.59	
Open Circuit Voltage (Voc)	51.27	51.53	51.79	52.04	52.29	52.52	52.75	
Current at maximum power (Imax)	10.12	10.18	10.24	10.32	10.40	10.48	10.55	
Short circuit current (Isc)	10.79	10.88	10.96	11.08	11.19	11.32	11.43	
Frame	Anodized Aluminium Alloy							
Front Glass	Tempered 3.2 mm (Low iron solar glass)							
Junction Box	IP 68							
Cable	4 mm <sup>2</sup> PV cable							
Connector	MC4 Series							
Number of Diode	3/6							
Dimensions (mm)	2108 x 1048 x 35 / 40 mm							
Max Series fuse rating	20 A							
Weight (Kg)	22.5							
Operating temperature (Deg.C)	-40°C to + 85°C							
Application Class	Class A							
Maximum System Voltage	1500 VDC							
Temp. Coefficient's	Power = -0.35%/°C Voltage = - 0.30% /°C Current = +0.05% /°C							
NOCT	45 +/- 2° C							
Maximum Load	5400 Pa							

Rear View

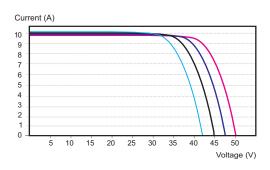


### Frame Cross Section A-A

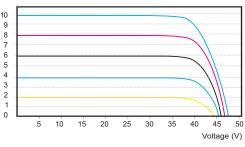


### Mounting Hole





### Current (A)



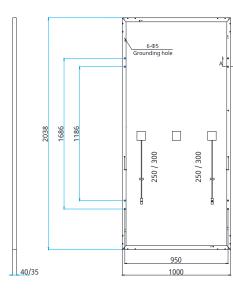
Specifications are subject to change without prior notice.



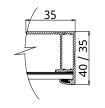
# MONO PERC TWIN CELL SERIES (72 Full Cells) MCAL-TC-Series

Model	MCAL-TC-390	MCAL-TC-395	MCAL-TC-400	MCAL-TC-405	MCAL-TC-410	MCAL-TC-415		
Type of cells	Mono Crystalline (PERC)							
Numbers of cells	72 (Twin Cell)							
Wattage (Wp)	390	395	400	405	410	415		
Voltage at max.power (Vmax)	40.4	40.6	40.8	41.0	41.2	41.4		
Open Circuit Voltage (Voc)	48.2	48.4	48.6	48.8	49.0	49.2		
Current at maximum power (Imax)	9.66	9.73	9.80	9.88	9.95	10.02		
Short circuit current (Isc)	10.17	10.25	10.33	10.41	10.50	10.57		
Frame	Anodized Aluminium Alloy							
Front Glass	Tempered 3.2 mm (Low iron solar glass)							
Junction Box	IP 68							
Cable	4 mm <sup>2</sup> PV cable							
Connector	MC4 Series							
Number of Diode	3/6							
Dimensions (mm)	2038 x 1000 x 35 / 40 mm							
Max Series fuse rating	20 A							
Weight (Kg)	22.5							
Operating temperature (Deg.C)	-40°C to + 85°C							
Application Class	Class A							
Maximum System Voltage	1500 VDC							
Temp. Coefficient's	Power = -0.35%/°C Voltage = - 0.29% /°C Current = +0.05% /°C							
NOCT	45 +/- 3° C							
Maximum Load	5400 Pa							

Rear View

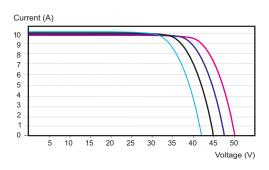


### Frame Cross Section A-A

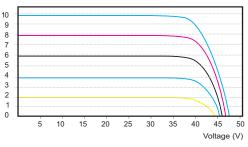


### Mounting Hole





### Current (A)



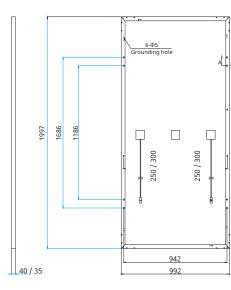
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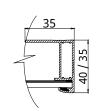
# POLY PERC TWIN CELL SERIES (72 Full Cells) PCAL-TC-Series

Model	PCAL-TC-335	PCAL-TC-340	PCAL-TC-345	PCAL-TC-350	PCAL-TC-355	PCAL-TC-360	
Type of cells	Poly Crystalline						
Numbers of cells	72 (Twin Cell)						
Wattage (Wp)	335	340	345	350	355	360	
Voltage at max.power (Vmax)	38.2	38.4	38.6	39.2	39.4	39.6	
Open Circuit Voltage (Voc)	45.7	45.9	46.1	46.6	46.8	47	
Current at maximum power (Imax)	8.77	8.86	8.94	8.94	9.01	9.09	
Short circuit current (Isc)	9.28	9.36	9.44	9.51	9.58	9.66	
Frame	Anodized Aluminium Alloy						
Front Glass	Tempered 3.2 mm (Low iron solar glass)						
Junction Box	IP 68						
Cable	4 mm <sup>2</sup> PV cable						
Connector	MC4 Series						
Number of Diode	3/6						
Dimensions (mm)	1997 x 992 x 35 mm						
Max Series fuse rating	20 A						
Weight (Kg)	22.5						
Operating temperature (Deg.C)	-40° C to + 85° C						
Application Class	Class A						
Maximum System Voltage	1500 VDC						
Temp. Coefficient's	Power = -0.35%/°C Voltage = - 0.31% /°C Current = +0.05% /°C						
NOCT	45 +/- 3°C						
Maximum Load	5400 Pa						

Rear View

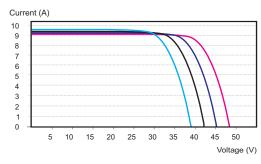


### Frame Cross Section A-A

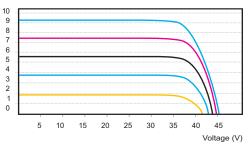


### Mounting Hole





### Current (A)



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