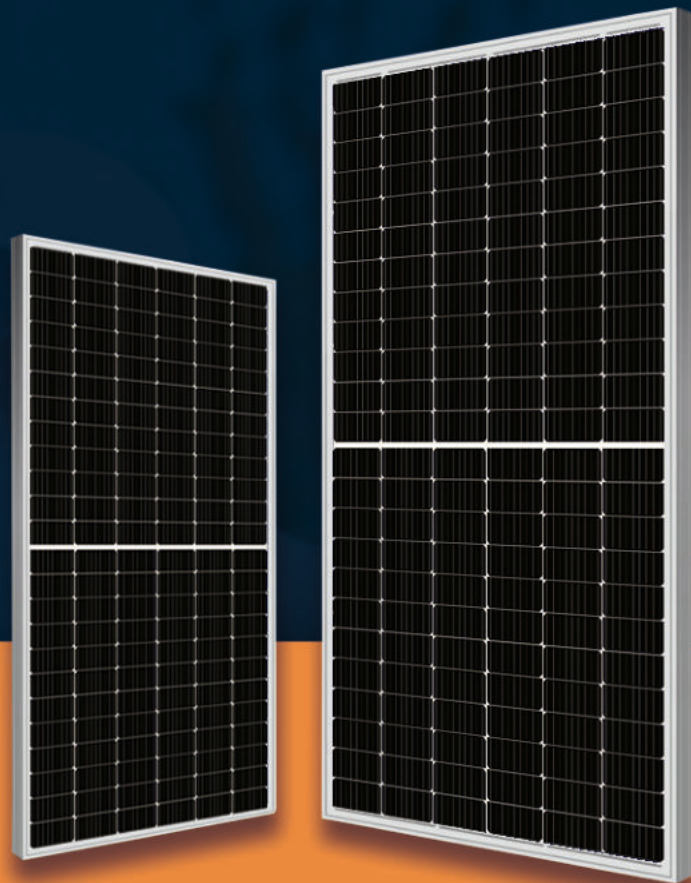




## 144 SERIES

### MONOFACIAL PERC

530Wp to 550Wp

#### SALIENT FEATURES



HIGH  
REMUNERATION



OPTIMUM RAW  
MATERIALS



VOLTAGE



NEGLIGIBLE  
POWER LOSS



HIGHER OUTPUT



ASSURED POWER

#### Electrical Parameter

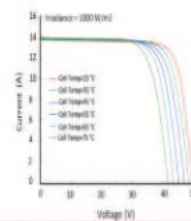
Module Type

|                                             | STC*  | NOCT*  | STC*  | NOCT*  | STC*  | NOCT*  | STC*  | NOCT*  | STC*  | NOCT*  |
|---------------------------------------------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| Capacity rating – P <sub>max</sub> (Wp)     | 530   | 389.25 | 535   | 394.55 | 540   | 399.85 | 545   | 405.70 | 550   | 411.55 |
| Power Tolerance (%)                         | 0-2   | -      | 0-2   | -      | 0-2   | -      | 0-2   | -      | 0-2   | -      |
| Module efficiency (%)                       | 20.59 | -      | 20.78 | -      | 20.98 | -      | 21.17 | -      | 21.37 | -      |
| Rated voltage – V <sub>mp</sub> (V)         | 41.47 | 38.23  | 41.62 | 38.43  | 41.78 | 38.62  | 41.92 | 38.88  | 42.07 | 39.13  |
| Rated current – I <sub>mp</sub> (A)         | 12.80 | 10.20  | 12.87 | 10.28  | 12.94 | 10.36  | 13.02 | 10.45  | 13.09 | 10.55  |
| Open circuit voltage, V <sub>oc</sub> (V)   | 48.94 | 44.27  | 49.09 | 46.00  | 49.27 | 47.73  | 49.42 | 46.49  | 49.57 | 45.25  |
| Short circuit current – I <sub>sc</sub> (A) | 13.70 | 10.94  | 13.75 | 11.04  | 13.84 | 11.14  | 13.91 | 11.21  | 13.99 | 11.27  |

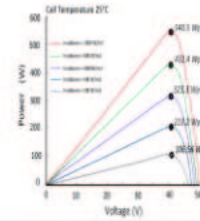
## Temperature Coefficients (TC) & Permissible Operation Conditions

|             |             |
|-------------|-------------|
| Tk Ics %/C  | 0.0475      |
| Tk Voc %/C  | -0.28       |
| Tk Pmax %/C | -0.35       |
| NOCT        | 43+ $\pm$ 2 |

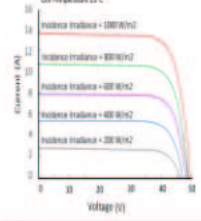
I-V CURVE WITH TEMPERATURE



P-V CURVE WITH IRRADIANCE



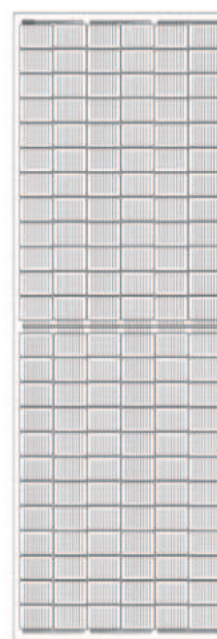
I-V CURVE WITH IRRADIANCE



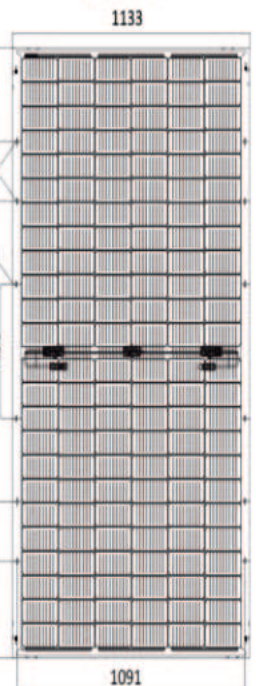
## Mechanical Specification

|                                |           |
|--------------------------------|-----------|
| Module Design                  | Twin-Peak |
| Matrix                         | 2*12*6    |
| No of cell                     | 144       |
| Full Cell Size (mm)            | 182       |
| Cut Cell Size (mm)             | 91        |
| Cell Busbar                    | 12        |
| Cell Type                      | Mono-PERC |
| Max System Voltage (V)         | 1500      |
| Maximum Series Fuse Rating (A) | 25A       |
| Length (mm)                    | 2272      |
| Width (mm)                     | 1133      |
| Frame Size (mm)                | 35        |
| Module Weight (kg)             | 27.5      |
| Cable Length (mm)              | 400       |
| Connector                      | MC4       |
| X-Pitch (mm)                   | 1091      |

FRONT VIEW



BACK VIEW



Tolerance:

Length:  $\pm 1$ mm  
Width:  $\pm 1$ mm  
Height:  $\pm 1$ mm  
Pitch - Row:  $\pm 1$ mm  
All units are in mm

|                |      |
|----------------|------|
| Y-Pitch 1 (mm) | 400  |
| Y-Pitch 2 (mm) | 1000 |
| Y-Pitch3 (mm)  | 1400 |

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