

SIRAJ SERIES

535 Wp - 555 Wp



Multi Busbar Cell Technology.

Shorter Distance Between Busbar Allows Better Flow of Electrons and reduce Power Loss.



Cost Effective

Offering high value at low cost, Makes it one of the popular choices of installers and customers Shorter Distance Between Busbar Allows Better Flow of Electrons and reduce Power Loss.



Lower BOS Costs

Designed for high voltage Systems of up to 1500 VDC Saving balance of system costs



All- Weather Technology

Optimal yields, whatever the Weather with excellent low-light and temperature behavior



Enduring high Performance

Long-term yield security with Anti LID and Anti PID Technology, Hot-Spot protect and traceable Quality



Load Capacity Enhancement

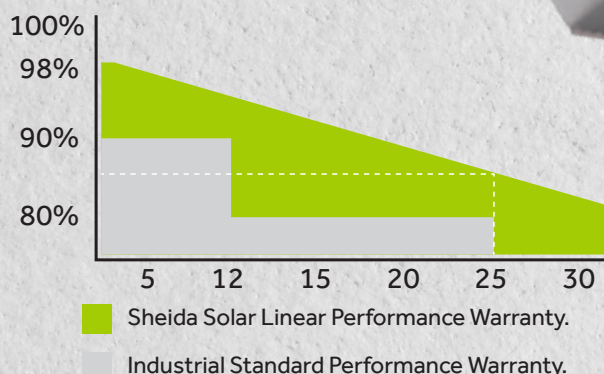
High durability raw material helps to withstand high snow (5400 Pa) and wind loads (2400 Pa)



A Reliable Investment

15 Year Product Warranty and **30 Year** linear power output warranty makes it a reliable investment

LINEAR PERFORMANCE WARRANTY



صُنِعَ فِي عُمان
Made in OMAN



TECHNICAL DATA

Dimensions (LxWxH in mm) 2278 x 1134 x 35

- **Weight (kg) :** 27
- **No. of cells:** 144 (12x6 / 12x6)
- **Aluminum Fram:** Sliver Anodized Aluminum Alloy
- **Front Cover :** Low Iron Tempered Glass (3.2 mm thick)
- **Encapsulate :** Ethylene Vinyl Acetate (EVA) Sheet free - Anti-PID
- **Backsheet :** Double layer with Fluorine Film - PVDF
- **Junction Box :** TUV Approved, SPLIT JB / IP 68 with 3 Bypass Diode & 0.40 Mtr Cable 1500 Vdc.
- **Application class rating :** Class A
- **Fire safety class rating :** Class II
- **Mechanical load test :** 5400pa - Front; 2400pa – Back (as per IEC)

ELECTRICAL CHARACTERISTICS (STC*)

| Model | Pmax (W) | Voc (V) | Vmp (V) | Imp (V) | Isc (V) | Eff. (%) |
|--------------|----------|---------|---------|---------|---------|----------|
| SHD-72HP-535 | 535 | 48.99 | 42.09 | 12.71 | 13.71 | 20.72 |
| SHD-72HP-540 | 540 | 49.13 | 42.23 | 12.79 | 13.77 | 20.91 |
| SHD-72HP-545 | 545 | 49.30 | 42.37 | 12.87 | 13.83 | 21.10 |
| SHD-72HP-550 | 550 | 49.47 | 42.51 | 12.95 | 13.89 | 21.30 |
| SHD-72HP-555 | 555 | 49.64 | 42.65 | 13.02 | 13.95 | 21.49 |

- STC : Irradiance of 1000 W/m², Cell temperature of 25°C, Air mass 1.5g
- Power measurement uncertainty is within ± 2%

ELECTRICAL CHARACTERISTICS AT (NOCT*)

| Model | Pmax (W) | Voc (V) | Vmp (V) | Imp (V) | Isc (V) |
|--------------|----------|---------|---------|---------|---------|
| SHD-72HP-535 | 393.79 | 45.79 | 39.34 | 10.01 | 10.98 |
| SHD-72HP-540 | 397.46 | 45.92 | 39.47 | 10.07 | 11.02 |
| SHD-72HP-545 | 401.54 | 46.08 | 39.60 | 10.14 | 11.06 |
| SHD-72HP-550 | 405.64 | 46.24 | 39.73 | 10.21 | 11.10 |
| SHD-72HP-555 | 409.76 | 46.40 | 39.86 | 10.28 | 11.14 |

- NOCT: Irradiation 800W/m², ambient temperature of 20°C, Wind speed = 1 m/s.

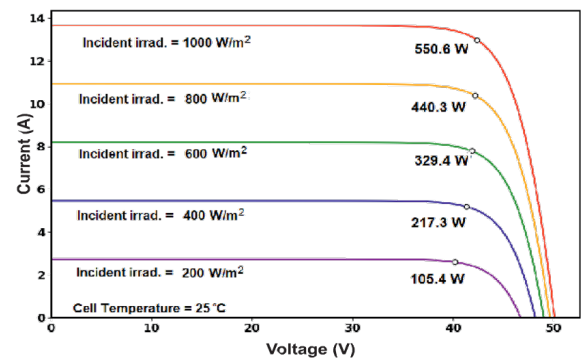
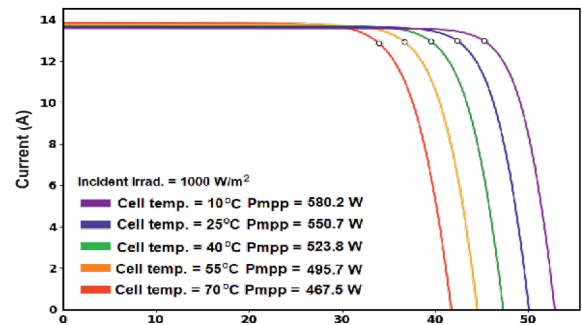
MAXIMUM OPERATING CONDITION

| | |
|----------------------------|----------------|
| Operation Temperature | -40°C to +85°C |
| Maximum System Voltage | 1500V |
| Maximum Series Fuse Rating | 25A |

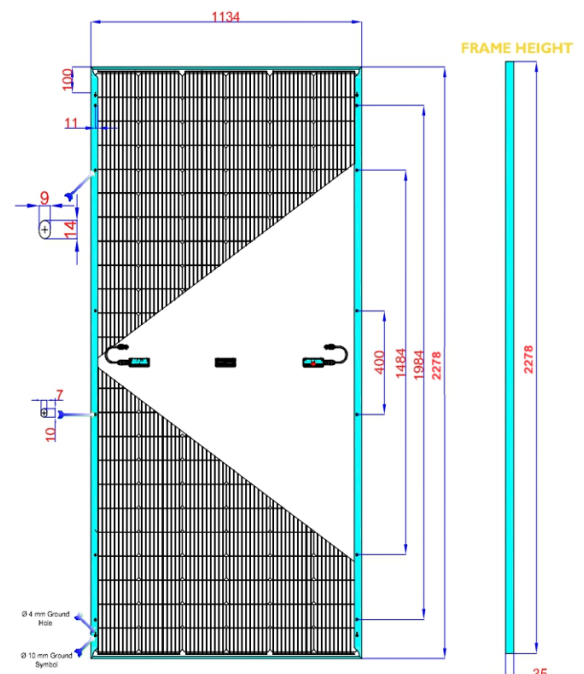
TEMPERATURE COEFFICIENTS

| | |
|----------------------------------|-------|
| Temp. Coefficient of Pmax (%/°C) | -0.39 |
| Temp. Coefficient of Voc (%/°C) | -0.31 |
| Temp. Coefficient of Isc (%/°C) | 0.05 |

REFERENCE IV CURVE DETAIL



REAR VIEW & MOUNTING DETAILS



Caution: Please read safety and installation instructions before using the product. Warranty: Linear power warranty for 30 years, with degradation up to 2.0 % in 1st year and 0.6 % year from year 2 to 30. DISCLAIMER: Specification included in the datasheet are subject to change without prior notice owing to continuous innovation on the product Development and R&D Activities.

Sheida Solar reserves the right to make any adjustment to the information described here, dataset contained in this specification do not form a representative of a single module data @ T&C Apply.

