SHEIDA SOLAR

أول مـصنع عُـماني لألواح الطـاقة الشمسية
Oman's First Solar PV Module factory

Sheida Solar Sheidasolar.om

DHUHA SERIES

435 Wp - 455 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

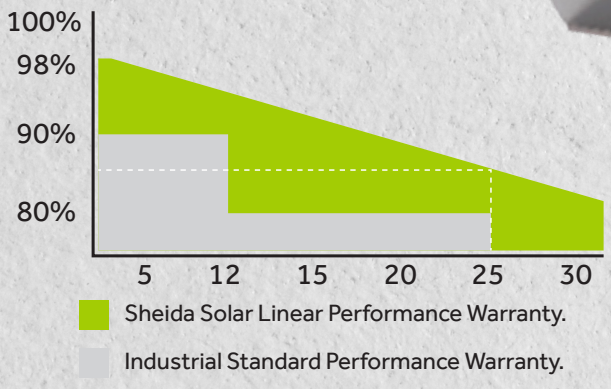
All- Weather Technology
Optimal yields, whatever the Weather
with excellent low-light and temperature behavior

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



صُنع في عُـمـان
Made in OMAN

SHEIDA INDUSTRIES LLC. ADD – Plot 360, Road 74, Phase 7, Sohar Industrial City – Madayn, Sohar, Al Batinah North, Sultanate of Oman.
GSM: +968 99187487 www.sheidasolar.com

TECHNICAL DATA

Dimensions (LxWxH in mm) 2098 x 1046 x 35

- **Weight (kg) :** 23
- **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-72H-435	435	49.00	42.39	10.27	11.29	19.83
SHD-72H-440	440	49.08	42.47	10.36	11.38	20.06
SHD-72H-445	445	49.16	42.55	10.46	11.47	20.28
SHD-72H-450	450	49.24	42.62	10.56	11.56	20.51
SHD-72H-455	455	49.32	42.69	10.66	11.65	20.74

- 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-72H-435	320.53	45.80	39.62	8.09	9.03
SHD-72H-440	323.95	45.87	39.70	8.16	9.10
SHD-72H-445	327.70	45.95	39.77	8.24	9.17
SHD-72H-450	331.47	46.02	39.84	8.32	9.25
SHD-72H-455	335.24	46.09	39.91	8.40	9.33

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

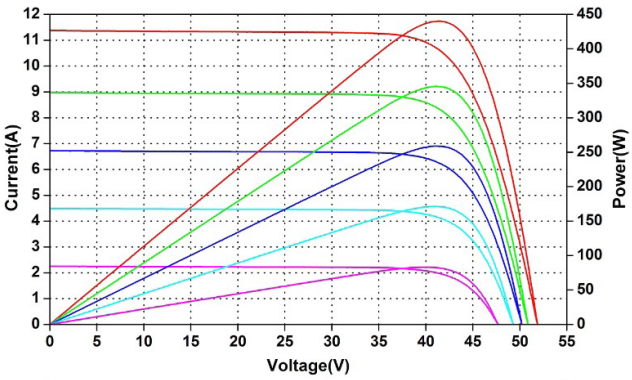
MAXIMUM OPERATING CONDITION

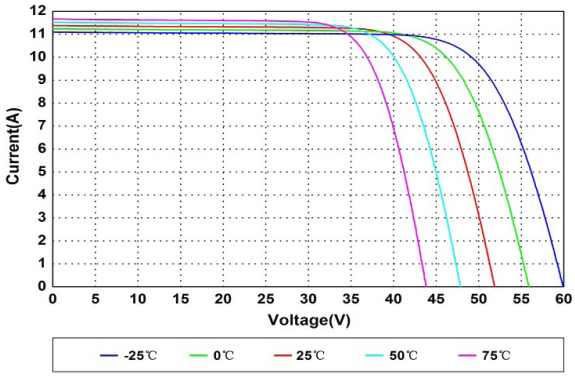
Operation Temperature	-40°C to +85°C
Maximum System Voltage	1500V
Maximum Series Fuse Rating	25A

TEMPERATURE COEFFICIENTS

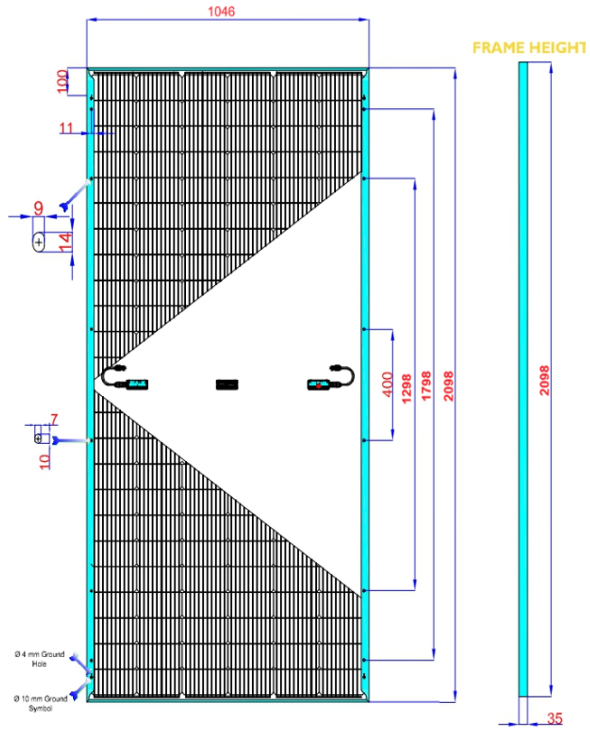
Temp. Coefficient of Pmax (%/°C)	-0.39
Temp. Coefficient of Voc (%/°C)	-0.31
Temp. Coefficient of Isc (%/°C)	0.05

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.

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