

M6 series



The Ideal Solution For

Rooftop arrays on commercial and industrial buildings

Ground-mounted Solar power plants

Sheida Solar is one of the leading solar solution experts. We are specialized in high efficiency solar module manufacturing. Our production and technology advantage, we provide our customers with comprehensive solution for the whole life cycle of solar project.

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)
and reduce Power Loss.

A Reliable Investment

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

Note: Specification subject to technical changes
and tests Sheida reserves the right of final
interpretation

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Sheida Industries LLC

 Sheida Solar  Sheidasolar.com

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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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MECHANICAL SPECIFICATION

Dimensions (LxWxH in mm)	2098 x 1046 x 35
Weight (kg)	24
No. of cells	144 (12x6 / 12x6)
Aluminum Frame	Sliver Anodized Aluminum Alloy
Front Cover	Low Iron Tempered Glass (3.2 mm thick)
Encapsulate (EVA)Sheet	Ethylene Vinyl Acetate free - Anti-PID
Backsheet	Double layer with Fluorine Film - PVDF
Junction Box with 3 Bypass	TUV Approved, SPLIT JB / IP 67 Diode & 0.40 Mtr Cable 1500 Vdc.
Application class rating	Class A
Fire safety class rating	Class II
Mechanical load test Back (as per IEC)	5400pa - Front; 2400pa -

ELECTRICAL PARAMETERS (STC*)

Model	Pmax (W)	Voc (V)	Vmp (V)	Imp (V)	Isc (V)	Eff. (%)
SHD-144H-420	420	48.76	42.15	9.97	11.07	19.14
SHD-144H-425	425	48.84	42.23	10.07	11.11	19.37
SHD-144H-430	430	48.92	42.31	10.17	11.20	19.60
SHD-144H-435	435	49.00	42.39	10.27	11.29	19.83
SHD-144H-440	440	49.08	42.47	10.36	11.38	20.06
SHD-144H-445	445	49.16	42.55	10.46	11.47	20.28
SHD-144H-450	450	49.24	42.62	10.56	11.56	20.51

ELECTRICAL PARAMETERS (NMOT*)

Model	Pmax (W)	Voc (V)	Vmp (V)	Imp (V)	Isc (V)
SHD-144H-420	309.3	45.58	39.40	7.85	8.86
SHD-144H-425	313.0	45.65	39.47	7.93	8.89
SHD-144H-430	316.8	45.73	39.55	8.01	8.96
SHD-144H-435	320.5	45.80	39.62	8.09	9.03
SHD-144H-440	324.0	45.87	39.70	8.16	9.10
SHD-144H-445	327.7	45.95	39.77	8.24	9.17
SHD-144H-450	331.5	46.02	39.84	8.32	9.25

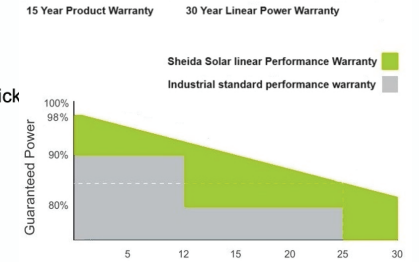
MAXIMUM OPERATING CONDITIONS

Operation Temperature	-40°C to +85°C
Maximum System Voltage	1500V
Maximum Series Fuse Rating	30A

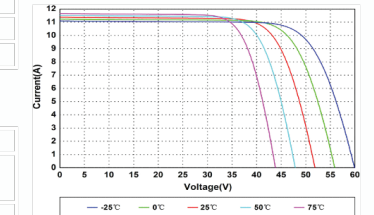
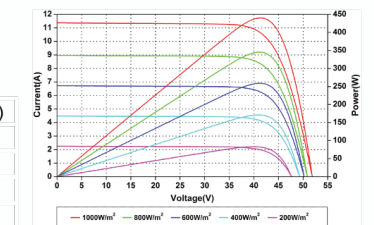
TEMPERATURE COEFFICIENTS

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

LINEAR PERFORMANCE WARRANTY



REFERENCE IV CURVE DETAIL



REAR VIEW & MOUNTING DETAIL

