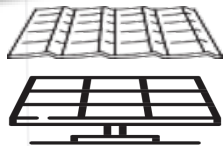


M10 series



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.

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

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

شيدة للصناعات شمسية
Sheida Industries LLC

 Sheida Solar  Sheidasolar.com

M10 series



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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Sheida Industries LLC

MECHANICAL SPECIFICATION

Dimensions (LxWxH in mm)	2284 x 1134 x 35
Weight (kg)	26
No. of cells	144 (12x6 / 12x6)
Aluminum Frame	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 PARAMETERS (STC*)

Model	Pmax (W)	Voc (V)	Vmp (V)	Imp (V)	Isc (V)	Eff. (%)
SHD-144H-520	520	48.57	41.67	12.49	13.53	20.08
SHD-144H-525	525	48.71	41.81	12.56	13.59	20.27
SHD-144H-530	530	48.85	41.95	12.64	13.65	20.46
SHD-144H-535	535	48.99	42.09	12.71	13.71	20.68
SHD-144H-540	540	49.13	42.23	12.79	13.77	20.88
SHD-144H-545	545	49.30	42.37	12.87	13.83	21.08
SHD-144H-550	550	49.47	42.51	12.95	13.89	21.28

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

ELECTRICAL PARAMETERS (NMOT*)

Model	Pmax (W)	Voc (V)	Vmp (V)	Imp (V)	Isc (V)
SHD-144H-520	383.3	45.40	38.95	9.84	10.86
SHD-144H-525	386.5	45.53	39.08	9.89	10.90
SHD-144H-530	390.5	45.66	39.21	9.96	10.94
SHD-144H-535	393.8	45.79	39.34	10.01	10.98
SHD-144H-540	397.5	45.92	39.47	10.07	11.02
SHD-144H-545	401.5	46.08	39.60	10.14	11.06
SHD-144H-550	401.5	46.24	39.73	10.21	11.10

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

MAXIMUM OPERATING CONDITIONS

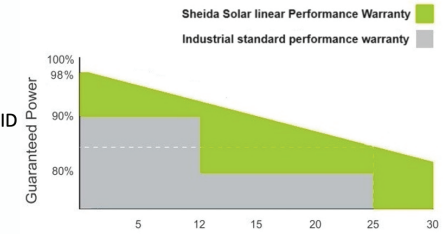
Operation Temperature	-40°C to +85°C
Maximum System Voltage	1500V
Maximum Series Fuse Rating	30A

TEMPERATURE COEFFICIENTS

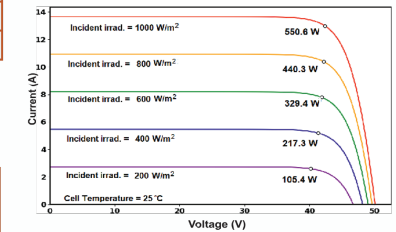
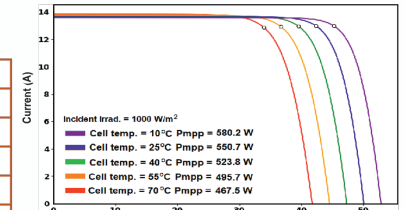
Temp. Coefficient of Pmax (%/°C)	-0.39
Temp. Coefficient of Voc (%/°C)	-0.31
Temp. Coefficient of Isc (%/°C)	0.05

LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty 30 Year Linear Power Warranty



REFERENCE IV CURVE DETAIL



REAR VIEW & MOUNTING DETAIL

