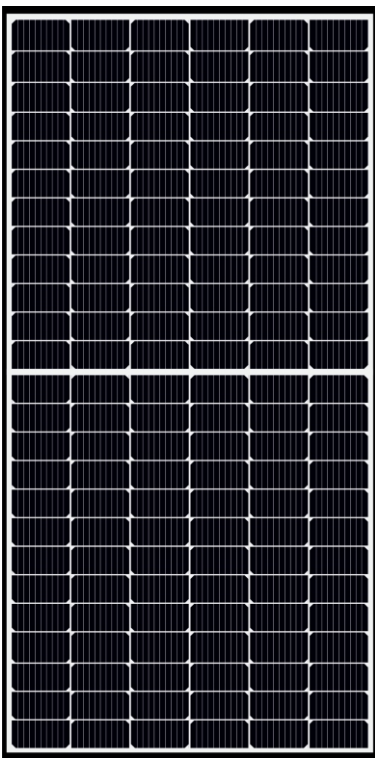


LOOM SOLAR

144 Cells / Mono PERC / 1500V DC / 20.38% Module Efficiency



KEY FEATURES



Higher module conversion efficiency

Maximize limited space with high efficiency mono PERC cells
Half-cell design, lower R_s loss, lower hot spot temperature



Highly reliable due to stringent quality control

100% EL double inspection
In-house testing goes well beyond certification requirements



Excellent low light performance

Excellent low light performance on cloudy days
mornings and evenings



Certified to withstand the most challenging environment

2400 Pa wind load • 5400 Pa snow load • 25 mm hail stones at 82 km/h



High system voltage compatible

Maximum 1500V DC system voltage saves total system cost



IP 68 junction box

High waterproof level for long term weather endurance

CERTIFICATES

- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- OHSAS 18001: Occupational Health and Safety

WARRANTY



10 years
Product
Warranty



25 years
Performance
Warranty

LOOM SOLAR

Loom Solar is a manufacturer of solar panels and Lithium batteries based out of Faridabad, Haryana. It is an ISO 9001 - 2015 certified company and recognized startup by Govt. of India. It is present in 500 districts across India having 3500 resellers, 100 employees, 2 offices and 1 Manufacturing unit.



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ELECTRICAL DATA *STC

Model	SHARK 440	SHARK 445	SHARK 450
Maximum Power Pmax (W)	440	445	450
Maximum Power Voltage Vmp (V)	41.41	41.45	41.50
Maximum Power Current Imp (A)	10.63	10.75	10.87
Open Circuit Voltage Voc (V)	49.69	49.80	50.00
Short Circuit Current Isc (A)	11.34	11.42	11.50
Module Efficiency (%)	20.15	20.25	20.38

STC : Irradiance at 1000W/m², Temperature 25 °C, Air Mass AM 1.5

ELECTRICAL DATA*NOCT

Maximum Power Pmax (W)	329.0	334.0	338.0
Maximum Power Voltage Vmp (V)	38.10	38.70	38.9
Maximum Power Current Imp (A)	8.60	8.65	8.70
Open Circuit Voltage Voc (V)	46.00	46.30	46.60
Short Circuit Current Isc (A)	9.07	9.12	9.18

NOCT: Irradiance at 800W/m², Temperature 20 °C, Air mass 1m/s

TEMPERATURE RATINGS

Temperature Coefficient of Isc (Isc)	+0.05%/°C
Temperature Coefficient of Voc (Voc)	-0.27%/°C
Temperature Coefficient of Pmax (Pmp)	-0.35%/°C
Normal Module Operating Temperature (NMOT)	45°C (±2°C)

OPERATING PARAMETERS

Maximum System Voltage	VDC 1500V
Operating Temperature	-40C to 85C
Maximum Series Fuse	25A
Maximum Test Load, Push/Pull	5400Pa/2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Voc and Isc Tolerance	±3%

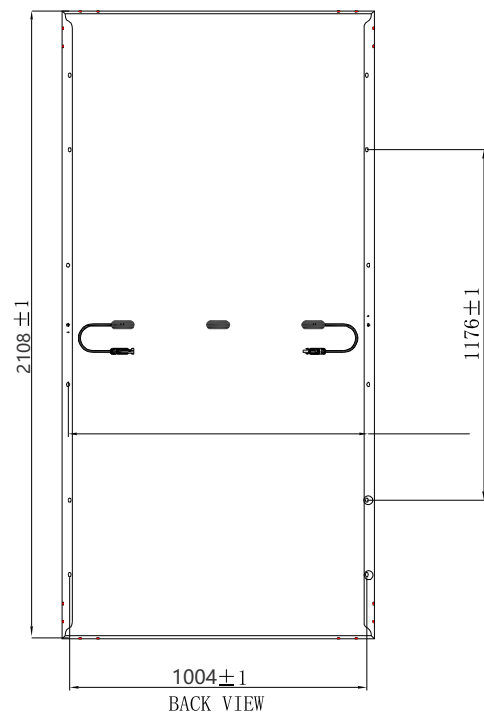
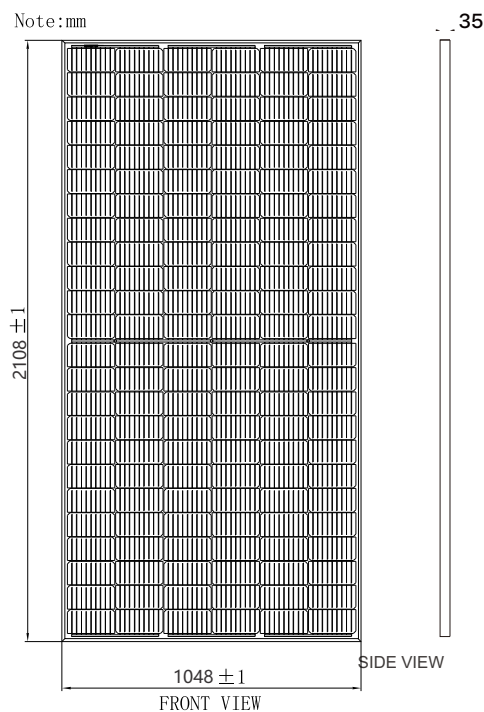
MECHANICAL DATA

Solar Cell Type	Mono Perc
Number of Cells	144 Cells (12X6) (12X6)
Module Dimensions	2108×1048×35mm
Weight	25 kg
Front Glass	AR-coating toughened glass, 3.2 mm
Frame	Anodized Aluminium
J-Box	Split Junction Box (IP68)
Cable	300 mm (cable length can be customized) , 4 Sqm
Elements	3 Bypass diode, 1Blocking diode
Connector	MC4 IP68 compatible

PACKAGING CONFIGURATION

Module Per Pallet	31 Pieces
Module Per 40'HQ container	20 Pallets 620 Pcs.

DIMENSION



*Installation instruction must be followed. See the installation manual or contact our technical service department for further information on approved installation.
 *The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Loom Solar (India) Pvt. Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

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