

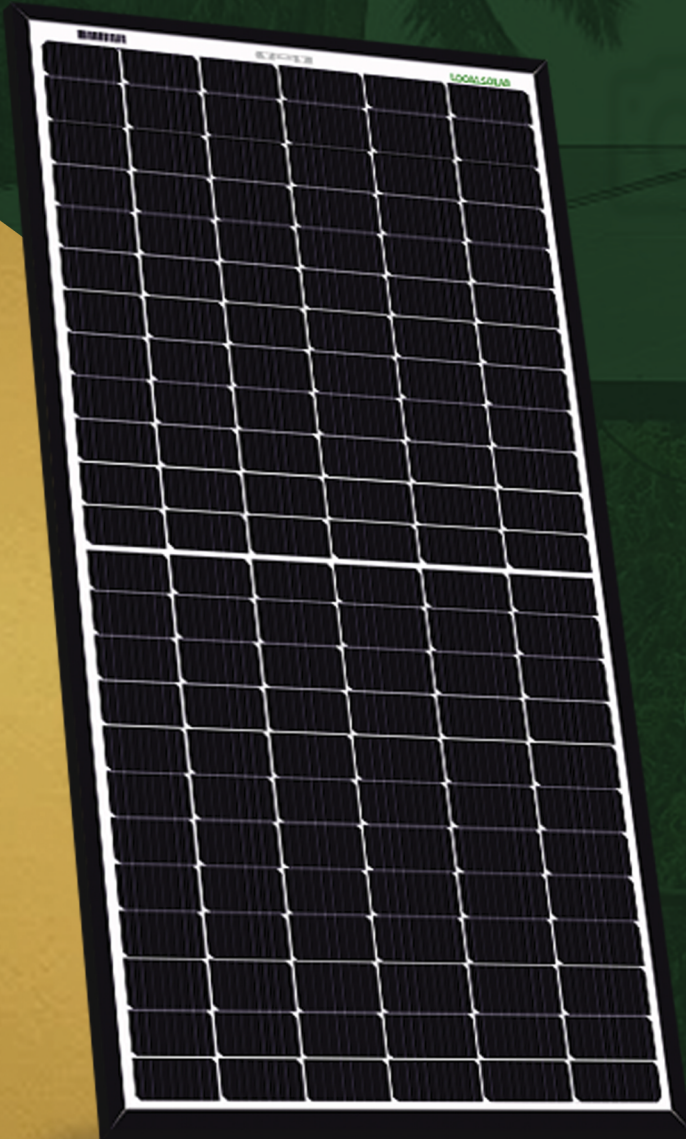
LOOM SOLAR

अपना घर अपनी बिजली

Super High **Efficiency** Solar Panel

Starting

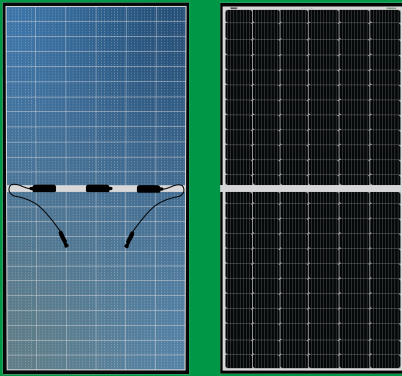
10W - 450W



FOR
HOME



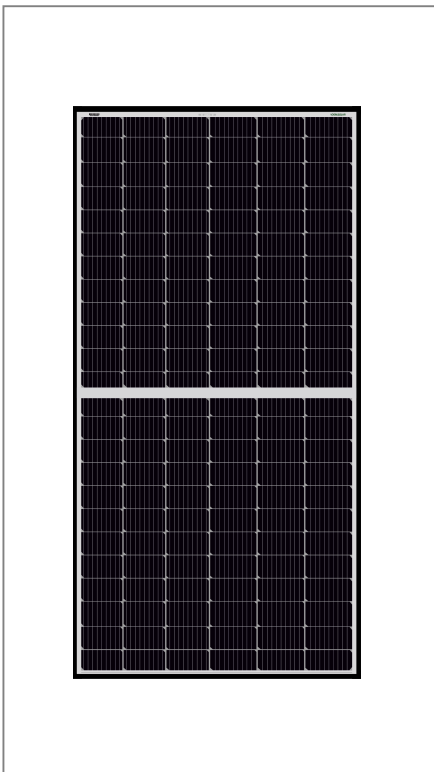
FOR
INDUSTRIES



BI-SHARK 440

Bi-facial Solar Module

144 Cells / Mono PERC / 1500V DC / 20.2% Maximum 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

QUALIFICATIONS & CERTIFICATES

- BIS Certified R- 84002526
- ISO 9001: Quality Management System



LOOM SOLAR

Loom Solar is a start-up, a manufacturer of Mono solar panels and AC Module based out of Faridabad, Haryana. It sells solar system across India with promised delivery within 3 days. It is an ISO 9001-2015 certified company and recognized startup by Govt. of India.

WARRANTY



Product
Warranty



Performance
Warranty

Bi-Facial Output		Bi-33-440
7%	Water Area (W)	470
10%	Grass Area (W)	485
13%	Concrete ground (W)	495
15%	Sand Soil (W)	505
20%	White Coating (W)	530

LOOM SOLAR PVT. LTD.

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E-mail: sales@loomsolar.com
Web: www.loomsolar.com

LOOM SOLAR

ELECTRICAL DATA *STC

Model	Shark Bi-Facial
TYPE (Tolerance: 0 - +5W)	440
Maximum Power Pmax (W)	440
Maximum Power Voltage Vmp (V)	41.41
Maximum Power Current Imp (A)	10.63
Open Circuit Voltage Voc (V)	11.34
Short Circuit Current Isc (A)	49.69
Module Efficiency (%)	19.72

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

ELECTRICAL DATA *NOCT

Maximum Power Pmax (W)	329.8
Maximum Power Voltage Vmp (V)	38.10
Maximum Power Current Imp (A)	8.65
Open Circuit Voltage Voc (V)	46.30
Short Circuit Current Isc (A)	9.17

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

TEMPERATURE RATINGS

Temperature Coefficient of Isc (αIsc)	+0.07%/°C
Temperature Coefficient of Voc (βVoc)	-0.36%/°C
Temperature Coefficient of Pmax (γPmp)	-0.38%/°C
Normal Module Operating Temperature (NMOT)	43°C±2°C

OPERATING PARAMETERS

Maximum System Voltage	1500 VDC
Operating Temperature	-40°C to 85°C
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%

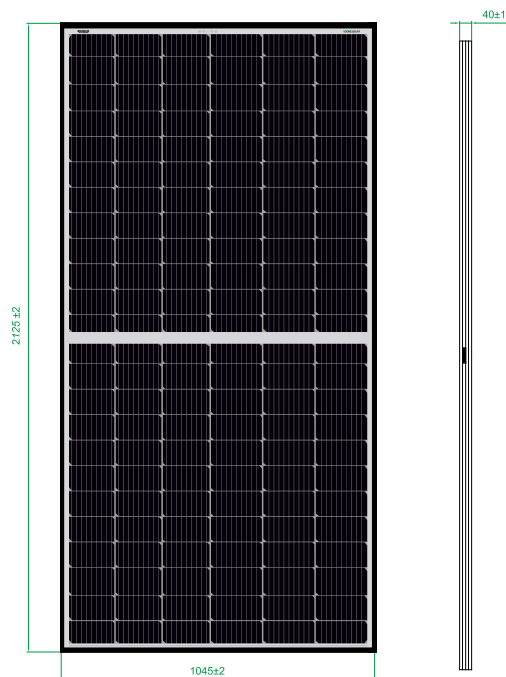
MECHANICAL DATA

Solar Cell Type	Mono PERC Bifacial, 83 X 16 mm
Number of Cells	144 [12x6 12x6]
Module Dimensions	2131 mm (L) x 1047 mm (W) x 35 mm (T)
Weight	25 kg
Front Cover	3.2 mm Low Iron and Tempered glass with ARC coating
Back Sheet	Transparent Backsheet
Frame	Anodized Aluminium Alloy
J-Box	IP68 / Weatherproof PPO
Cable	4 mm ² & 500mm
Number of diodes	3
Connector	MC4 IP68 compatible

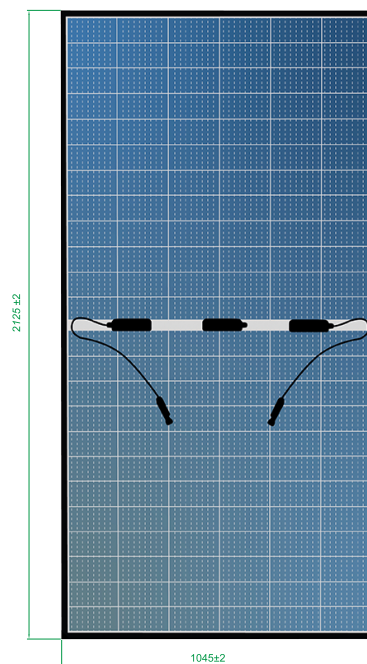
PACKAGING CONFIGURATION

Module per pallet	25 pieces
Module per 40'HQ container	

DIMENSION



FRONT VIEW



BACKVIEW

*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.