

# SHARK 440

## Mono Perc 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 Rs 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

- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- OHSAS 18001: Occupational Health and Safety

### 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



#### LOOM SOLAR PVT. LTD.

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**LOOM SOLAR**

## ELECTRICAL DATA \*STC

TYPE ( Tolerance: 0 - +5W)	SHARK 440
Maximum Power Pmax (W)	440
Maximum Power Voltage Vmp (V)	42.00
Maximum Power Current Imp (A)	10.50
Open Circuit Voltage Voc (V)	50.00
Short Circuit Current Isc (A)	11.35
Module Efficiency (%)	19.40

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM 1.5

## ELECTRICAL DATA \*NOCT

Maximum Power Pmax (W)	323
Maximum Power Voltage Vmp (V)	38
Maximum Power Current Imp (A)	8.55
Open Circuit Voltage Voc (V)	46.20
Short Circuit Current Isc (A)	9.06

NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## TEMPERATURE RATINGS

Temperature Coefficient of Isc (αIsc)	+0.05%/°C
Temperature Coefficient of Voc (βVoc)	-0.28%/°C
Temperature Coefficient of Pmax (γPmp)	-0.36%/°C
Normal Module Operating Temperature (NMOT)	45°C±2°C

## OPERATING PARAMETERS

Maximum System Voltage	1500 VDC
Operating Temperature	-40°C-+85°C
Maximum Series Fuse	20A
Maximum Test Load,Push/Pull	5400Pa/2400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥100MΩ
Voc and Isc Tolerance	±3%

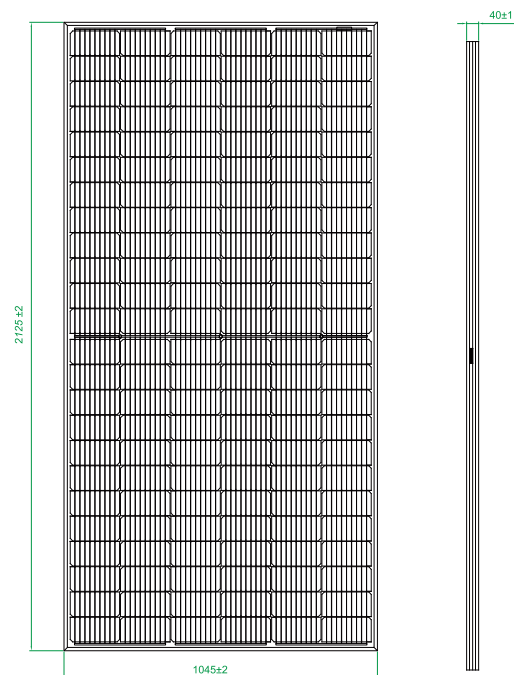
## MECHANICAL DATA

Solar Cell Type	Mono Perc(166x83)mm
Number of Cells	144 [12x6   12x6]
Module Dimensions	2063x1026x40
Weight	24 kg
Front Cover	3.2 mm Solar glass with anti- reflection
Back Sheet	Highly resistant polymeric construction
Frame	Anodized aluminium alloy
J-Box	3 Part, 3 bypass diodes IP68 rated
Cable	4.0 mm solar cable, 0.6 meter with cable tie
Number of diodes	3
Connector	MC4 IP68 compatible

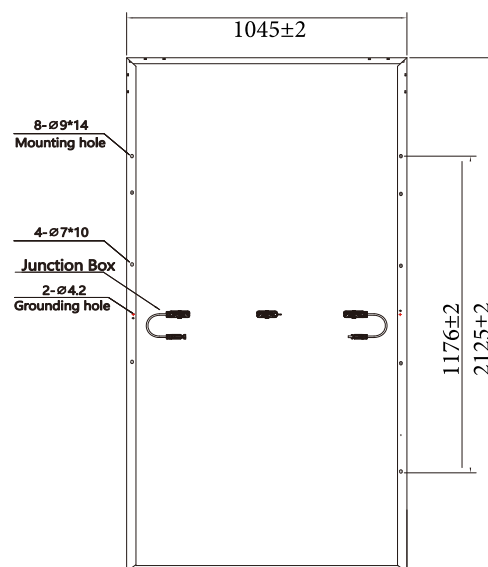
## PACKAGING CONFIGURATION

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.