

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 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

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

Low light performance on cloudy days



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 (%) | 20.2 |

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

ELECTRICAL DATA *NMOT

| | |
|-------------------------------|-------|
| 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/m², 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% |

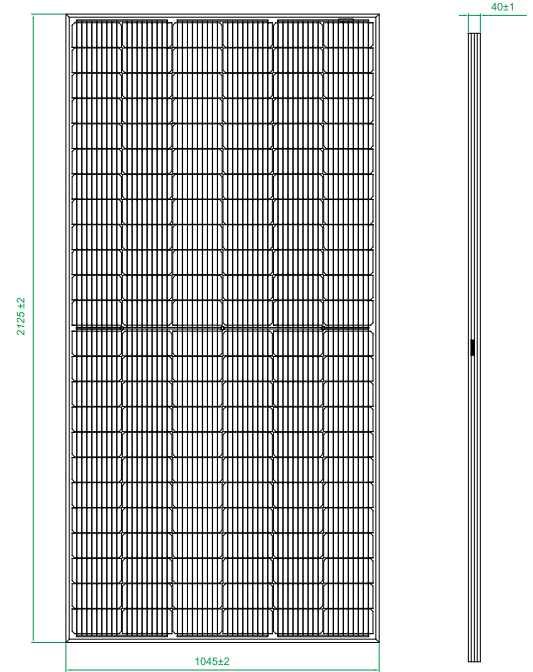
MECHANICAL DATA

| | |
|-------------------|--|
| 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 |

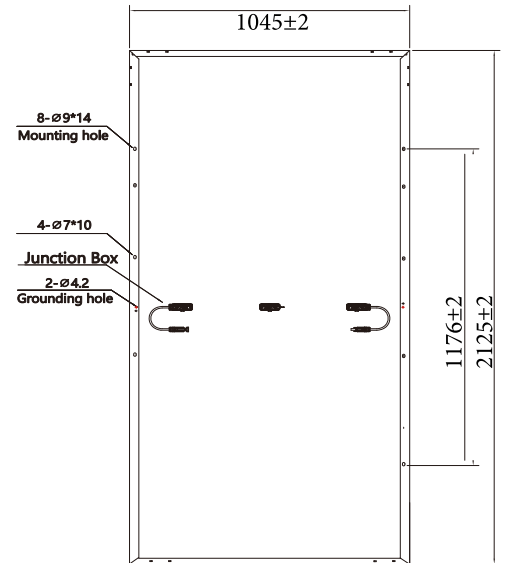
PACKAGING CONFIGURATION

| | |
|----------------------------|-----------|
| 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.

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