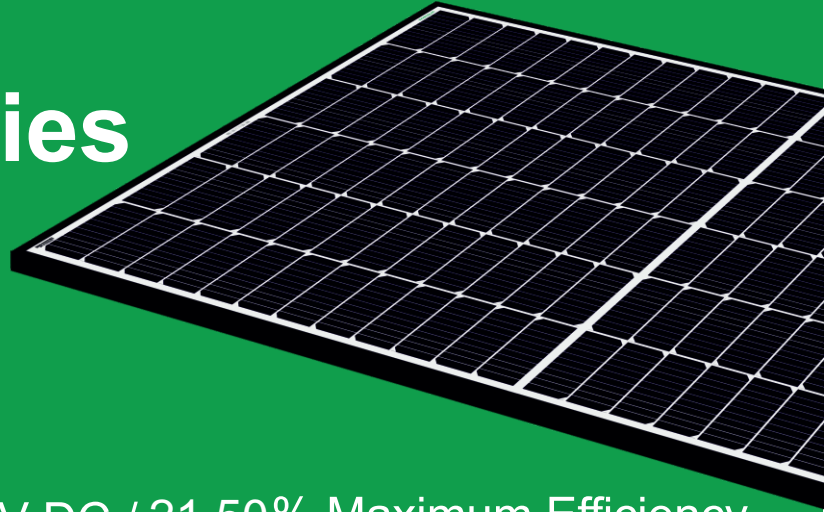
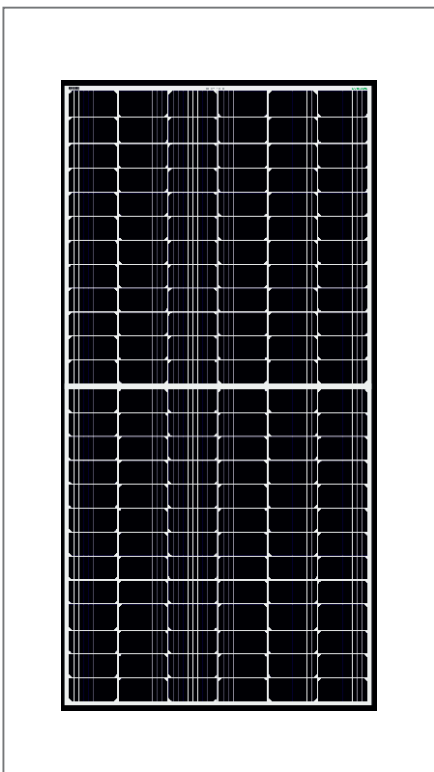


# SHARK Series Solar Module



144 Cells / Mono PERC / 1500V DC / 21.50% 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



## WARRANTY



Product  
Warranty



Performance  
Warranty

## 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.

LOOM SOLAR PVT. LTD.

Add: Plot No. 14/6, Mathura Road, Sector 27B, Faridabad, Haryana -121003

Tel: 8750 77 88 00

E-mail: sales@loomsolar.com

Web: www.loomsolar.com

**LOOM SOLAR**

## ELECTRICAL DATA \*STC

Model	Shark 545	Shark 550	Shark 555
Maximum Power Pmax (W)	545	550	555
Maximum Power Voltage Vmp (V)	42.50	42.58	42.70
Maximum Power Current Imp (A)	12.85	12.91	13.00
Open Circuit Voltage Voc (V)	49.50	50.20	50.90
Short Circuit Current Isc (A)	13.70	13.89	13.95
Module Efficiency (%)	21.15	21.30	21.50

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

## ELECTRICAL DATA \*NOCT

Model	Shark 545	Shark 550	Shark 555
Maximum Power Pmax (W)	407.5	414	421
Maximum Power Voltage Vmp (V)	39.40	39.80	40.10
Maximum Power Current Imp (A)	10.34	10.40	10.49
Open Circuit Voltage Voc (V)	46.80	46.90	47.00
Short Circuit Current Isc (A)	10.95	11.17	11.28

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)	-0.27%/°C
Temperature Coefficient of Pmax (γPmp)	-0.35%/°C
Normal Operating Cell Temperature (NOCT)	45°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%

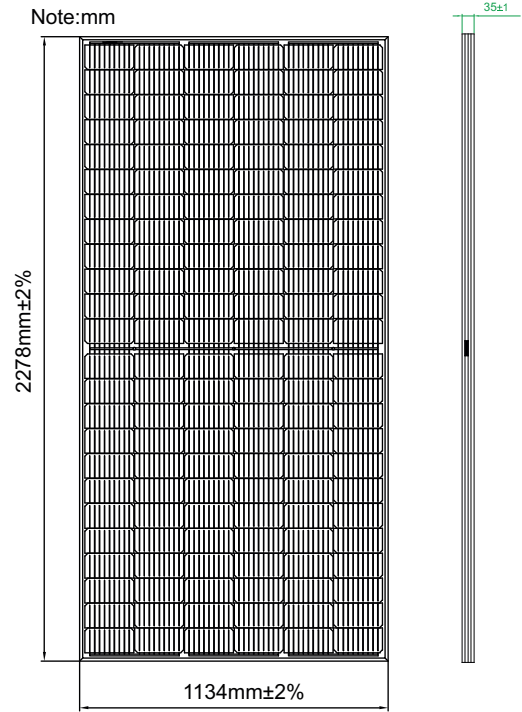
## MECHANICAL DATA

Solar Cell Type	Mono PERC , 182 X 91 mm
Number of Cells	144 (6X24)
Module Dimensions	2278×1134×35mm (L×W×H)
Weight	29 kg
Front Glass	3.2mm Tempered Low Iron Glass
Frame	Anodized aluminum
Junction Box	Split Junction Box IP68
Cable	4 mm <sup>2</sup> & 300mm
Connector	MC4 IP68 compatible

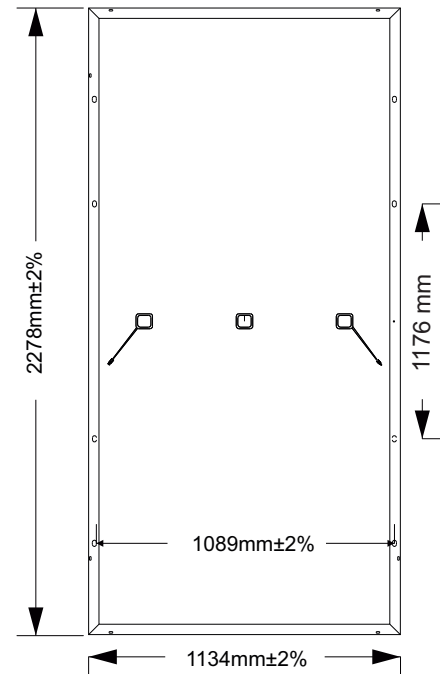
## PACKAGING CONFIGURATION

Module per pallet	31 Pieces
Pallet / Module per 40'HQ container	20 Pallets/620 Pieces

## DIMENSION

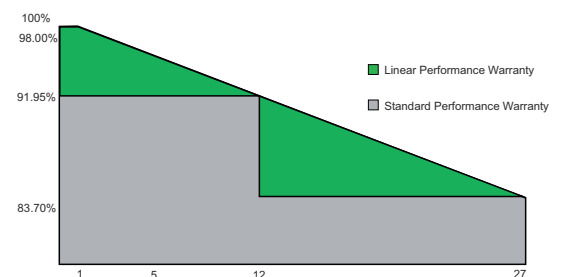


FRONT VIEW



BACKVIEW

## SOLAR PANEL DEGRADATION



\*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.

**LOOM SOLAR**