











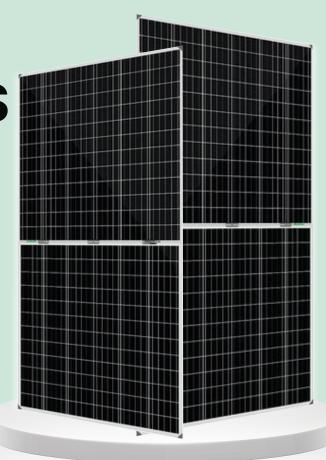


# **QUESTER SERIES**

# 144 cells Mono-Perc Half cut Solar PV Module

WARRANTY FOR MATERIALS AND PROCESSING

WARRANTY FOR LINEAR **POWER OUTPUT** 



## **Product certifications:**

IS 14286:2010 | IEC 61215: 2005 | IS | IEC 61730-2:2004 | IS | IEC 61730-1:2004 | IEC 62804 | IEC 61853 | IEC 61701

## Salient features

- M10 cells for enhanced power generation
- Multi-busbar technology to minimize electrical losses
- Round ribbon connectors for improved light utilization
- Non-destructive cell cutting for improved reliability and lower chances of micro-cracks
- Half-cut cell technology for superior low-light performance.
- Also available in Bifacial technology enabling power generation from both the sides.















## **Mechanical Data**

Specification	Data
Cell Type	Half cut Mono PERC
Cell Arrangement	24x6 Mono PERC Half Cut Cells
Dimensions	2278x1134x35 mm
Weight	29 Kg
Front Cover	3.2 mm ARC Glass
Frame Material	Anodized Aluminium Alloy
Junction Box	IP68 Split JB
Cable	0.3 Meter (Length)
Connectors	MC4 Compatible
By-Pass Diodes	3 Pcs

#### **OPERATING PARAMETERS**

## DESIGN (MM)

Operational Temperature: -40° C ~ +85° C

Power Output Tolerance: 0 ~ +5 W

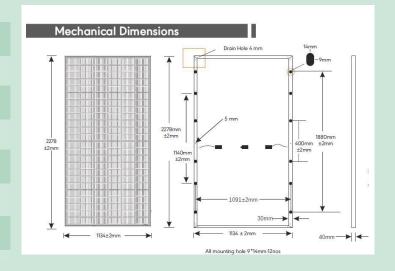
Voc and Isc Tolerance: 3%

Maximum System Voltage: DC1500V (IEC/UL)

Maximum Series Fuse Rating: 30A

Safety Protection Class: Class ||

Fire Rating: UL type 3



#### **ELECTRICAL CHARACTERISTICS**

### TEST UNCERTANITY FOR PMAX: ± 3%

Maximum Power (Pmax/W)	530	535	540	545	550	555	560
Open Circuit Voltage (Voc/V)	49.20	49.35	49.50	49.50	49.62	49.84	49.98
Short Circuit Current (Isc/A)	13.71	13.78	13.85	13.49	13.56	13.61	13.65
Voltage at Maximum Power (Isc/A)	41.35	41.50	41.65	43.93	44.03	44.26	44.37
Current at Maximum Power (Imp/A)	12.82	12.90	12.97	12.43	12.52	12.56	12.65
Module Efficiency (%)	20.7	20.09	21.1	21.13	21.33	21.53	21.73

STC (Standard Testing Conditions): Irradiance 1000W/m2, Cell Temperature 25 C, Spectra at AM1.5







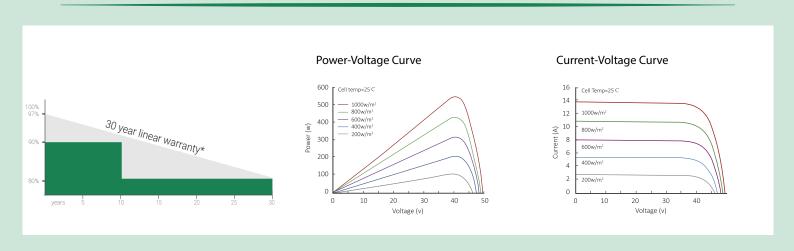








#### TEMPERATURE RATINGS (STC) MECHANICAL LOADING **Parameter** Calcutated Value Short circuit current à (%/°C).......... 0.0213 Front Side Static Loading 5400Pa Rear Side Maximum Static Open circuit voltage β (%/°C)...... -0.0415 2400Pa Loading 25mm Hailstone at the δ (%/°C)...... Peak power -0.2111 Hailstone Test speed of 23m/s



## **INDUSTRY LEADING PROTECTION**



**EXCELLENT EFFICIENCY** 



**LOW-LIGHT PERFORMANCE** 



**HIGH SAVING** 



**PID RESISTANCE** 



**IP68 JUNCTION** 



**REDUCED RISK** 



**Ideal for Large** scale Installations



**High Power** 



Better shading tolerance



Lower LCOE & system cost



**Excellent** temperature performance



Non-destructive cutting