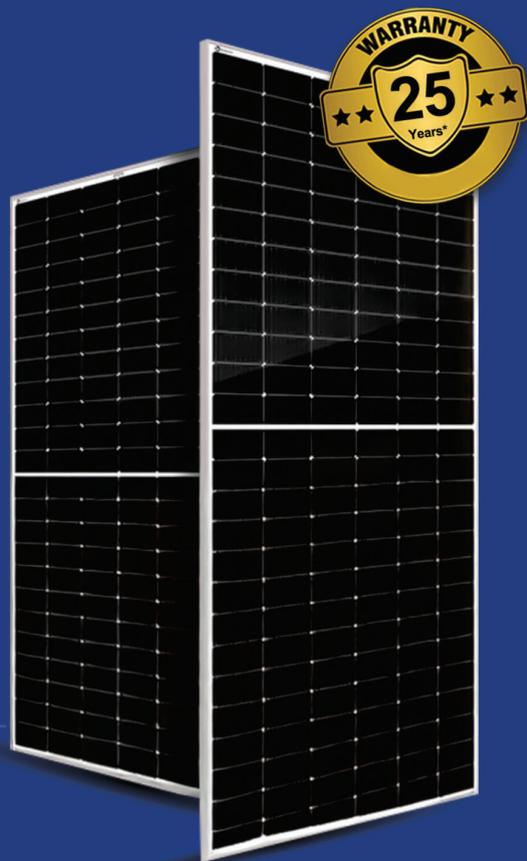
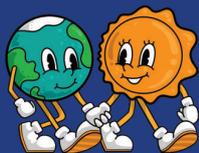


# SOLAR PV MODULES

Mono Crystalline Half-cut Series is the simplest and the most common type of photovoltaic panels. Mono facial panels have a single layer of solar cells, allowing them to absorb sunlight from one side. This innovative design optimizes efficiency and performance, making them a standout choice for environmentally conscious individuals



## OUR RANGE OF PRODUCTS

### Mono Perc (Half Cut)

260 WP, 350 WP, 450 WP, 500 WP, 545 WP & 585 WP (Non DCR)  
500 WP & 545 WP (DCR)

## KEY FEATURES

- Highly Efficient Mono PERC M10 Cells.
- Half Cut Cell for Optimum Performance.
- IP68 Junction Box & Connector.
- Reduced Hot Spot Loss.
- MBB Technology, Better Light Trapping and Current Collection.
- Excellent Anti-PID Performance Guarantee.
- Excellent Power Output with +ve. Tolerance (up to 4.99 Wp).
- Lower Cost of Energy (LCOE).
- Increased Shade Tolerance.



# SI550M10-144 MONO FACIAL SERIES

500Wp - 550Wp 144 Cell Mono Half Cut

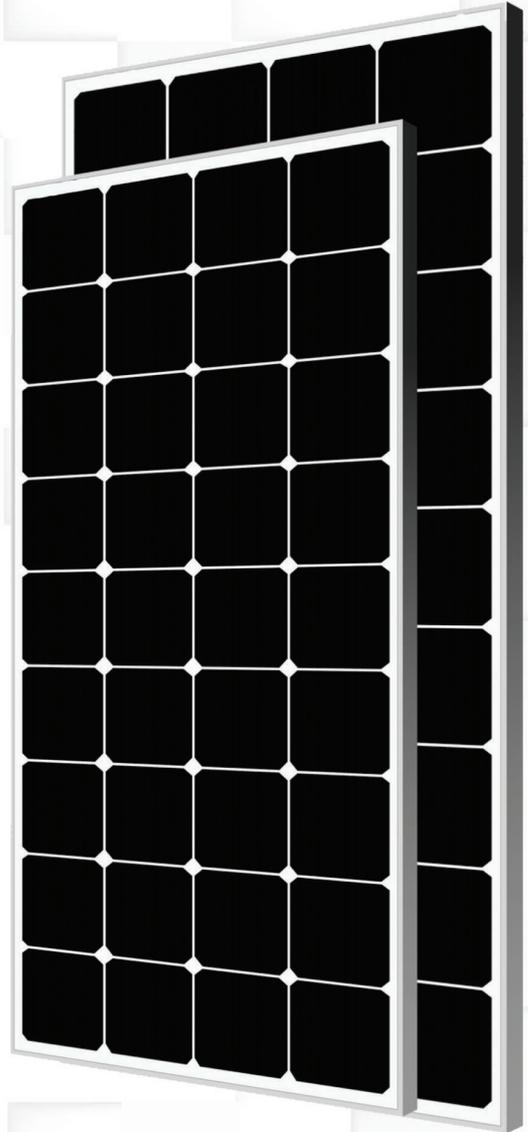
## LINEAR PERFORMANCE WARRANTY



**25 YEARS**  
LINEAR POWER WARRANTY



**10 YEARS**  
PRODUCT WARRANTY



## Certification & Standards



**ALMM**  
Approved List of Models and Manufacturers



IS 14286: 2010/IEC 61215: 2005, IS/IEC 61730 (Part-1): 2004 & IS/IEC 61730 (Part-2): 2004 IEC TS 62804-1: 2015 IEC 61701:2020

## KEY FEATURES

**IP68** IP68 Junction box, Connector

**Reduced Hot Spot Loss.**

**MBB Technology, Better light trapping & Current Collection**

**PID** Excellent Anti-PID Performance Guarantee

**+** Excellent Power Output with +ve Tolerance(upto 4.99Wp)

**Database** Lower Cost of Energy(LCOE).



# SPECIFICATION:

## ELECTRICAL DATA (STC- IRRADIANCE 1000W/M<sup>2</sup> , CELL TEMPERATURE 25°C, AIR MASS AM 1.5)

Model Number	System Voltage (V)	Maximum Power Output (Wp)	Open Circuit Current- Voc(V)	Maximum Power Voltage-Vmax(V)	Short Circuit Current-ISC(A)	Maximum Power Current -Imax(A)	Module Efficiency(%)	Fill Factor(%)
SI585M10-156	1500	585	53.78	45.29	13.83	12.92	20.93	80.05
SI550M10-144	1500	550	49.70	42.64	13.83	12.90	21.08	80.03
SI545M10-144	1500	545	49.47	42.19	13.77	12.85	21.08	80.01
SI540M10-144	1500	540	49.23	42.42	13.71	12.80	21.08	80.01
SI535M10-144	1500	535	49.03	41.97	13.65	12.75	20.89	79.87
SI500M10-132	1500	500	45.48	38.76	13.83	12.90	21.05	79.32

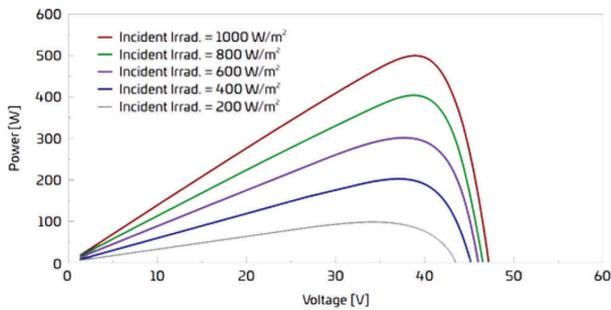
## MECHANICAL DATA

Solar Cells Per Module(units)	144
Cell Configuration(Matrix)	12 x 6    2
Length(L) x Width(W) x Thickness (T) in mm	2278 x 1134 x 40
Weight of module(kg)	Max. 28.3 Kg
No of cells per by pass diode (No.)	48
Area of Module	2.583252

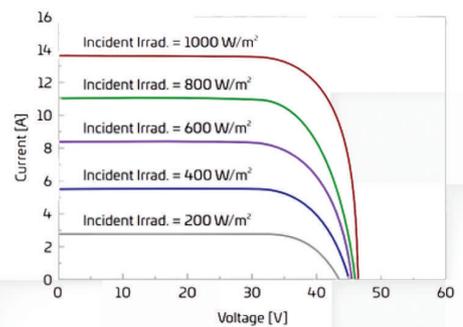
## TEMPERATURE RATINGS

NOCT	45° C ± 2° C
Maximum System Voltage	1500 V DC
Maximum Series Fuse Rating	25A
Temperature Coefficient of Pmax	-0.39% / ° C
Temperature Coefficient of Voc	-0.30% / ° C
Temperature Coefficient of of Isc	+0.05% / ° C
Temperature Range	-40° C + 85° C

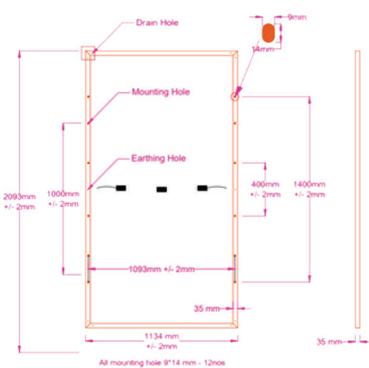
## PV Curve



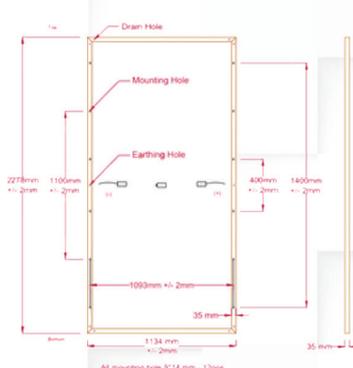
## IV Curve



## Frame Dimension (500 WP)



## Frame Dimension (545 WP)



## Frame Dimension (585 WP)

