

# HALF CUT MONO-PERC

MONO-CRYSTALLINE PV MODULES  
HALF-CUT CELLS

144

HALF CUT  
CELLS



SAND  
RESISTANT



LID  
RESISTANT



AMMONIA  
RESISTANT



SALT CORROSION  
RESISTANT



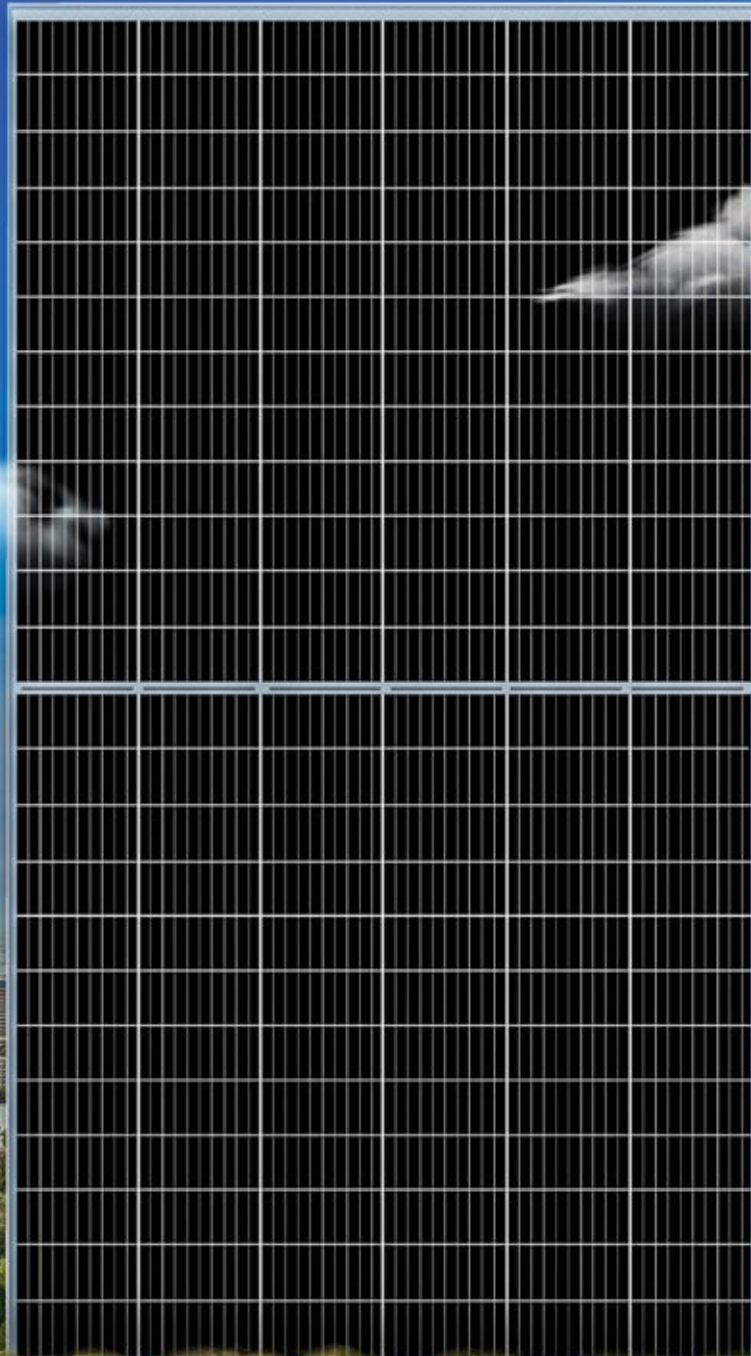
HIGHLY STABLE  
AND TOUGH

25

years  
Performance  
Guarantee

10

years  
Product  
Warranty



HALF CUT

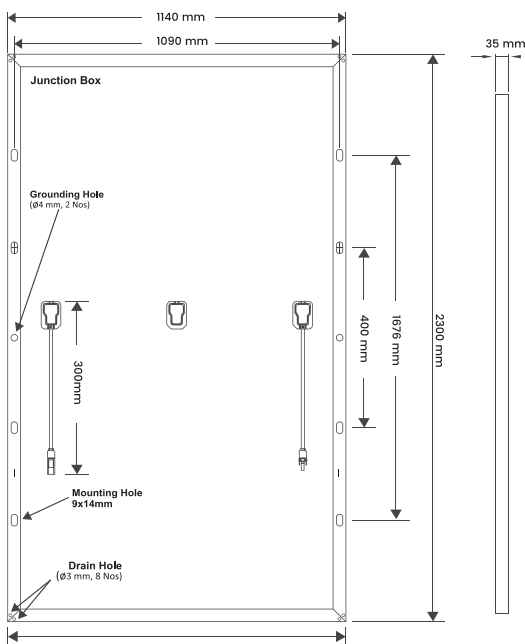
550 W

## Electrical Parameter at Standard Test Condition (STC)

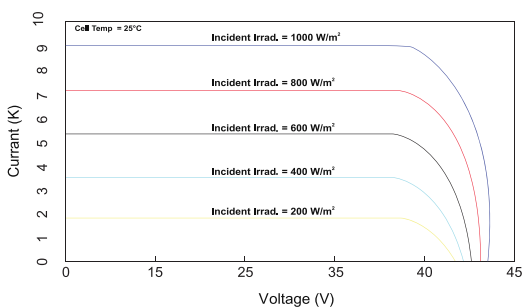
NO OF CELL	144
Maximum Power (Pmax) Wp	550
Maximum Power Voltage (Vmp) V	42.6
Maximum Power Current (Imp) A	12.95
Open Circuit Voltage (Voc) V	49.45
Short Circuit Current (Isc) A	13.90
Module Efficiency ( > ) %	21.29
Under Standard Test Condition (STC) of Irradiance of 1000 W/m <sup>2</sup> , Spectrum Cell Temperature of 25°C	

ELECTRICAL PARAMETER AT NOCT	550
Maximum Power (Pmax) Wp	395.94
Maximum Power Voltage (Vmp) V	37.99
Maximum Power Current (Imp) A	10.42
Open Circuit Voltage (Voc) V	45.55
Short Circuit Current (Isc) A	11.25
NOCT Irradiance of 800 W/m <sup>2</sup> , Ambient Temperature 20°C, Wind speed 1 m/Sec	

## Dimension



## IV Curves



## MECHANICAL DATA

Cell Type	Mono Crystalline Half cut
Cell Arrangement	144
Dimensions (L/W/H)	2300 mm /1140 mm/35 mm (40 mm in optional)
Weight	28.5 Kg
Superstrate (Glass)	3.2 mm High Transmission Low-iron Tempered
Frame Material	Anodized Aluminum Frame with Twin Wall Profile
Cell Encapsulant	PID free EVA (Ethylene Vinyl Acetate)-FC/UFC
Back Sheet	UV Protected tri Layer Reflective Back sheet
Junction Box	IP 68 Rated
Cable	300 mm/4 mm <sup>2</sup>
Connector	2 nos Black MC4 Compatible Connector
By-pass Diode	3 PCS
Mechanical Load test	Snow load 5400 Pa, Wind load 2400 Pa
Application Class	Class A
Electrical Safety	Class II
Fire Safety	Class C (Type)

## TEMPERATURE CO-EFFICIENTS AND OPERATING CONDITIONS

Nominal Operating Cell Temperature	45°C ± 2 °C
Temperature Coefficient of Pmpp	-0.39%/°C
Temperature Coefficient of Voc	-0.33%/°C
Temperature Coefficient of Isc	+0.06%/°C
Operating Temperature Range	-40°C To +85°C
Maximum System Voltage	1500 V (IEC & UL)
By-Pass Diode Rating	25 A
Maximum Series Fuse Rating	25 A
Design Load (Pa)	2400

