

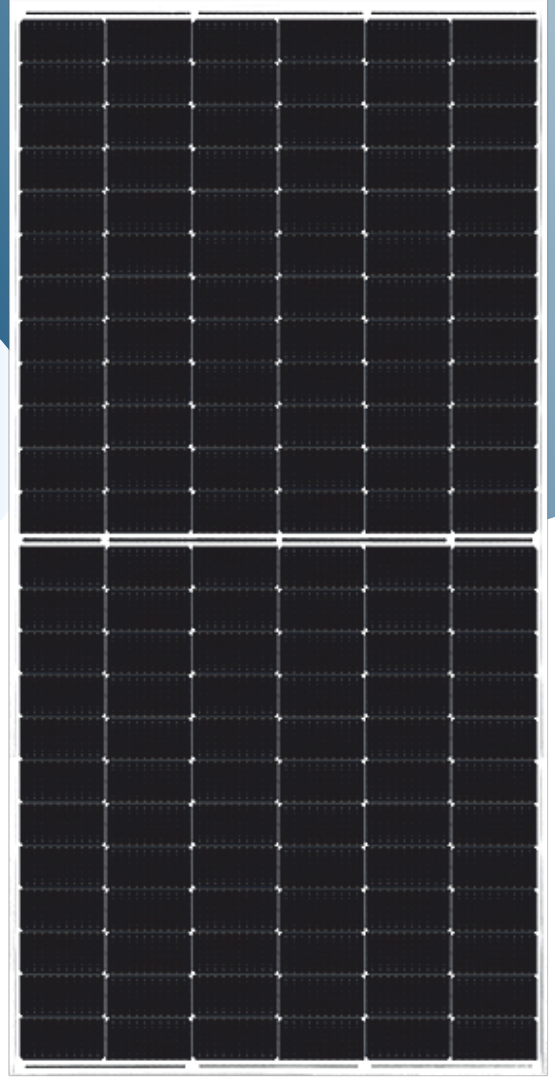
MOON SERIES

MONO PERC 144 cell Solar Modules

MONO PERC PV MODULES
MBB P-TYPE PERC HALF-CUT CELL

UP TO
21.30%
EFFICIENCY

144 CELLS | 500 - 550 W RANGE



HIGHLIGHTS



MBB cell technology – excellent antimicrocracking performance with more balanced interior stress; grid pattern current path, lower cost



Longer Product life and performance



Excellent PID resistance



Modules made with 10 BB & 16 BB

KEY FEATURES



Higher Efficiency



Half-Cut Cell Design With Multi Bus Bar Technology



Round Ribbon Technology



PID Resistance



3-Stage EL Testing



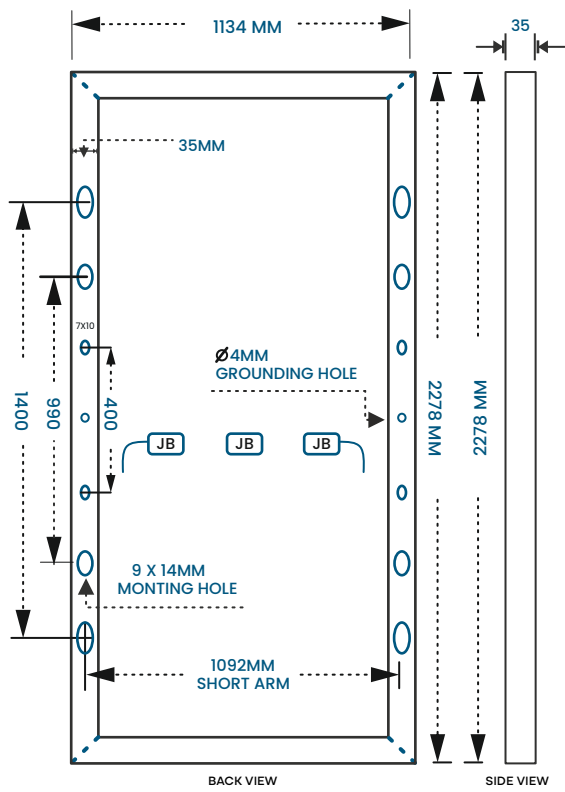
100% hi-pot tested For safety



Only Positive Power Output Tolerance



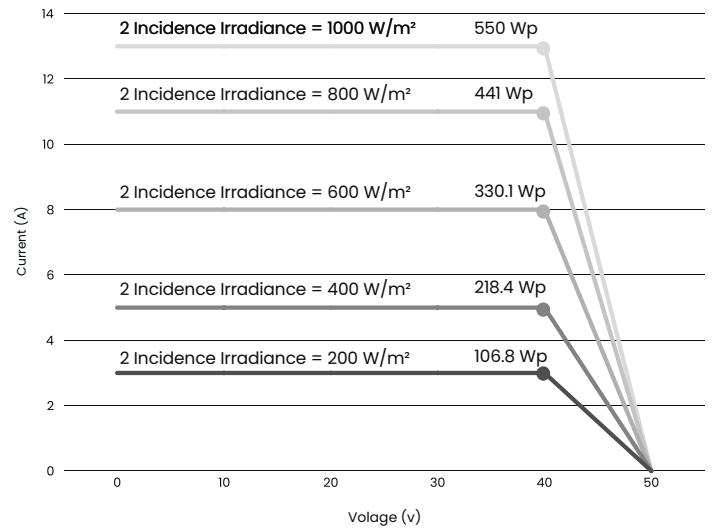
1500 V Module



Technical Data

Multi Irradiance Curve Mono Perc M10-144 HC Cell Module

Cell temp: 25°C



Electrical Parameter at Standard Test Condition (STC)

MODEL TYPE	SASA 520C-144	SASA 525C-144	SASA 530C-144	SASA 535C-144	SASA 540C-144	SASA 545C-144	SASA 550C-144
MAXIMUM POWER (Pmax) Wp	520	525	530	535	540	545	550
MAXIMUM POWER VOLTAGE (Vmp) V	41.11	41.18	41.26	41.40	41.62	41.83	42.12
MAXIMUM POWER CURRENT (Imp) A	12.66	12.75	12.86	12.94	12.98	13.03	13.07
OPEN CIRCUIT VOLTAGE (Voc) V	48.02	48.10	48.17	48.46	48.74	49.03	49.32
SHORT CIRCUIT CURRENT (Isc) A	13.39	13.46	13.55	13.59	13.63	13.67	13.71
MODULE EFFICIENCY (>) %	20.12	20.32	20.51	20.71	20.90	21.09	21.29

Under Standard Test Condition (STC) of Irradiance of 1000 w/m², Spectrum AM1.5 and Cell Temperature of 25°C

Temperatures Co-efficient AND

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature coefficient of Pmpp	-0.42%/°C
Temperature coefficient of Voc	-0.35%/°C
Temperature coefficient of Isc	+0.07%/°C
Operating temperature Range	-40°C To +85°C
Maximum System Voltage	1500 VDC (IEC & UL)
Maximum Series Fuse Rating	25A

Electrical Parameter at NOCT

MAXIMUM POWER (Pmax) Wp @ NOCT	385.00	388.00	392.00	396.00	399.00	402.95	407.31
MAXIMUM POWER VOLTAGE (Vmp) V	38.30	38.37	38.44	38.58	38.78	38.97	39.24
MAXIMUM POWER CURRENT (Imp) A	10.06	10.13	10.22	10.28	10.31	10.34	10.38
OPEN CIRCUIT VOLTAGE (Voc) V	44.92	44.99	45.07	45.33	45.59	45.86	46.13
SHORT CIRCUIT CURRENT (Isc) A	10.76	10.82	10.89	10.93	10.96	10.99	11.02

NOCT Irradiance of 800 w/m 2, Ambient Temperatures 20°C, Wind speed 1 m/sec

NOTE:

- Technical data and specification are mention above is subject to change without prior notice
- The Electrical data given here is for reference purpose only
- Please Confirm your exact requirements while placing your order

- 10 Years Product Warranty, 25 Years Power Output Warranty

- **CERTIFICATES** : IS 14286 / IEC 61215, IEC 61730-1, IEC 61730-2 BIS AND ALMM APPROVED

Mechanical Data

CELL TYPE	Mono perc
CELL ARRANGEMENT	144 (6×12+6×12)
DIMENSIONS (L/W/H)	2278mm /1134mm/35mm (40mm in optional)
WEIGHT	28.0 kg
SUPERSTRATE (GLASS)	3.2mm High Transmission Low-iron Tempered ARC Glass
FRAME MATERIAL	Silver Anodized Aluminum frame with Twin Wall Profile
CELL ENCAPSULANT	PID free EVA (ethylene vinyl acetate)-FC/UFC
BACKSHEET	UV Protected tri Layer Reflective Backsheet
JUNCTION BOX	IP 68 rated, 3 diodes, split junction box
CABLE	Solar cable 400mm length, 4mm²
CONNECTOR	2nos Black MC4 Compatible Connector
MECHANICAL LOAD TEST	Snow load 5400 Pa, Wind load 2400 Pa
APPLICATION CLASS	Class A
ELECTRICAL SAFETY	Class II
FIRE SAFETY	Class C (Type 1)