

2278x1133x35

Module dimensions (mm)

182x91

Cell size (mm)

144 CELL

Mono PERC module

525-550Wp

Power output

1500V DC

Max. system voltage

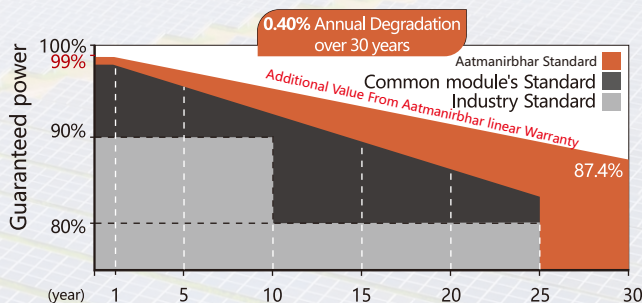
21.28%

Max. efficiency

Quality Guarantee

12-Years Material & technology warranty

30- Years Linear power output warranty



▶ Aatmanirbhar solar Liner power Output Guarantee

▶ Standard Liner Power Output Guarantee



KEY FEATURES



Higher Power Output

Module power increases by 5-25% generally, bringing significantly lower LCOE and higher IRR. 0-5w positive tolerance output warranty.



ZERO LID

N-Type cell is characterized by "0" LID, which generates more power



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and material control.



Optimal Choice for Ultra-large Power Plants

Contribute to Lower BOS cost and LCOE.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance, Lower temperature coefficient and operating temperature.



More Outstanding Low-light Performance

Higher power output even under low-light environments like on cloudy days



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



3 EL Full Inspection

Three stage 100% EL Inspection warranting defect-free product.

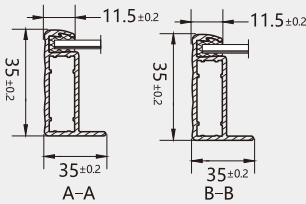
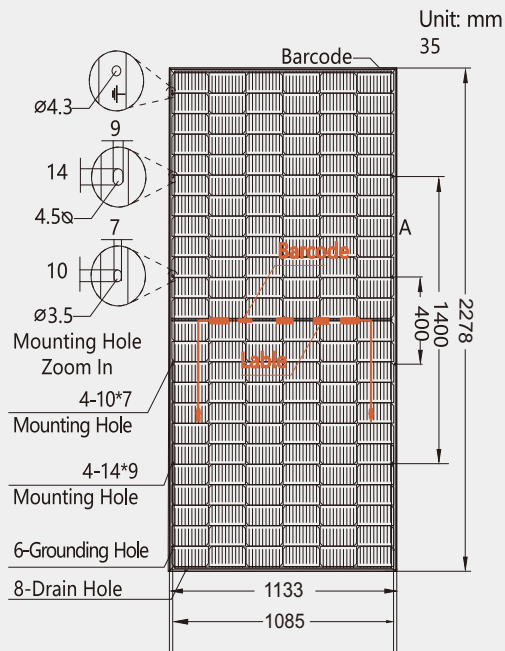
Reg. Office:

304 - Vraj Valencia, B/H, Mahindra Show Room,
S.G. Hwy, Sola, Ahmedabad, Gujarat 380060

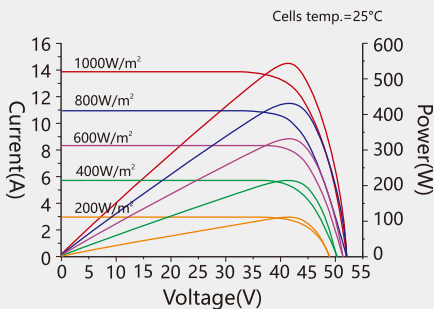
Factory Address :

Survey No: 192, At Dudhathal Village, Taluko-Kapadvanj,
Dist.Kheda, Pin 387 620, Gujarat, India.

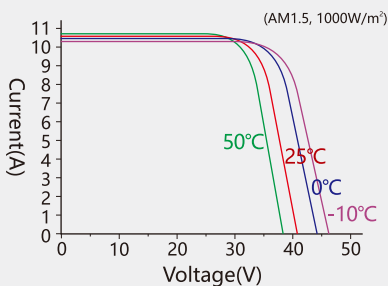
Dimensions of PV Module



ASPL-550W-182MP144 BIFACIAL I-V characteristics at different irradiances



I-V characteristics at different temperatures



ELECTRICAL DATA(STC)

Model Number	ASPL-525W-182M/144B	ASPL-530W-182M/144B	ASPL-535W-182M/144B	ASPL-540W-182M/144B	ASPL-545W-182M/144B	ASPL-550W-182M/144B
Rated Power in Watts-Pmax(Wp)	525	530	535	540	545	550
Open Circuit Voltage-Voc(V)	49.12	49.32	49.52	49.69	49.90	50.10
Short Circuit Current-Isc(A)	13.63	13.70	13.78	13.86	13.90	13.95
Max. Power Voltage-Vmpp(V)	41.26	41.41	41.55	41.72	41.90	42.10
Max. Power Current-Impp(A)	12.73	12.81	12.88	12.95	13.02	13.07
Module Efficiency(%)	20.31	20.51	20.70	20.89	21.09	21.28

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM 1.5,
NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Electrical characteristics with different rear side power gain (reference to 550Wp front)

Bifacial Gain *	Pmax/W	Voc/V	Isc/A	Vmpp/V	Impp/A
5%	572	49.90	14.60	41.90	13.67
10%	600	49.90	15.29	41.90	14.32
15%	627	49.90	15.99	41.90	14.97
20%	654	49.90	16.68	41.90	15.61
25%	681	49.90	17.38	41.90	16.28
30%	708	49.90	18.07	41.90	16.93

* Bifacial Gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Size	182mm×91mm
Cell Configuration	144 Cells (6×12+6×12)
Module Dimensions	2278×1133×35mm
Weight	34.0kg
Front Glass	High Transmission, Low Iron, Tempered Arc Glass 2.0mm
Back Glass	High Transmission, Low Iron, Tempered Arc Glass 2.0mm
Frame	Anodized Aluminium Alloy Type 6005 T6, Silver Color
J-box	IP68, 1500V DC, 3 Diodes
Cables	4.0mm ² , (+) 300mm, (-) 300mm (connector Included)
Connector	MC4-compatible

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C ± 2°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Operational Temperature	-40°C ~ +85°C
Max. System Voltage	1500V DC
Max. Series Fuse Rating	25A

PACKAGING CONFIGURATION

	40ft (HQ)
Number of Modules Per Container	620
Number of Modules Per Pallet	31
Number of Pallets Per Container	20
Packaging Box Dimensions (l×w×h) (mm)	2300×1120×1260
Box Gross Weight (kg)	1084

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT

