



Uranus Series 0~+5W

525~550W

BIFACIAL Monocrystalline Module

2278x1133x35

Module Dimensions (mm)

182x91

Cell Size (mm)

144 Cell

Mono PERC Module

525-550Wp

Power Output

1500V DC

Max. System Voltage

21.28 %

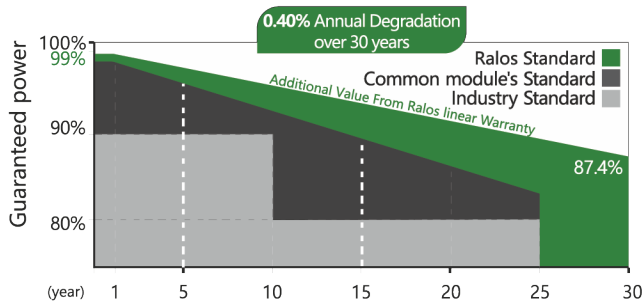
Max. Efficiency



Quality Guarantee

12-Years material & technology warranty

30- Years linear power output warranty



- ▶ Ralos 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.

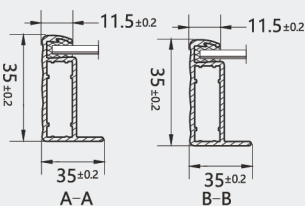
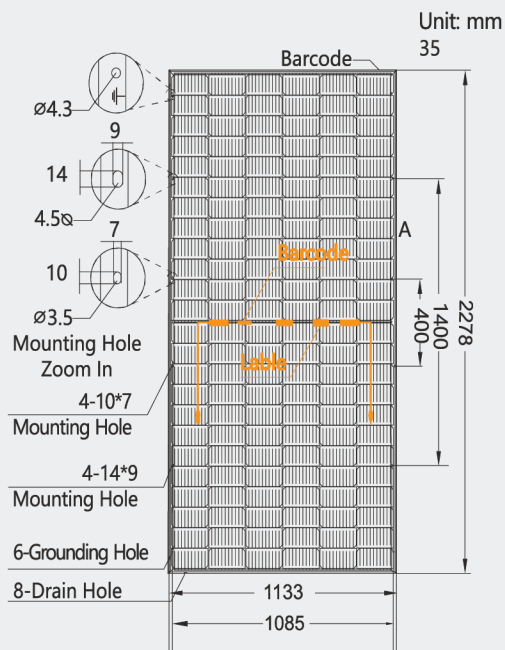
Reg. Office:

904, Mauryansh Elanza, Besides Parekh's Hospital, Shyamal Cross Road, Satellite, Ahmedabad - 380015, Gujarat, INDIA.

Factory Address :

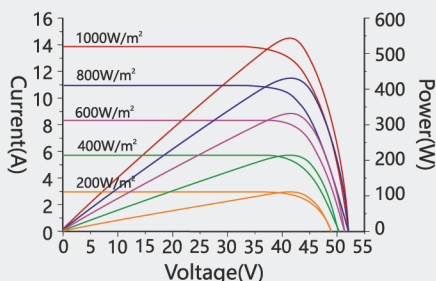
Survey No: 192, At Dudhathal Village, Taluko-Kapadvanj, Dist.Kheda, Pin 387 620, Gujarat, India.

Dimensions of PV Module



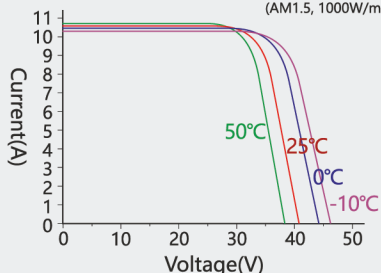
ASPL-550W-182MP144 BIFACIAL I-V characteristics at different irradiances

Cells temp.=25°C



I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



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.