



# Neptune Series 0~+5W

# 605~625W

N-TOPCon | Bifacial Monocrystalline Module

**2466x1133x35**

Module Dimensions (mm)

**182x91**

Cell Size (mm)

**156 Cell**

Mono TOPCon Module

**605-625Wp**

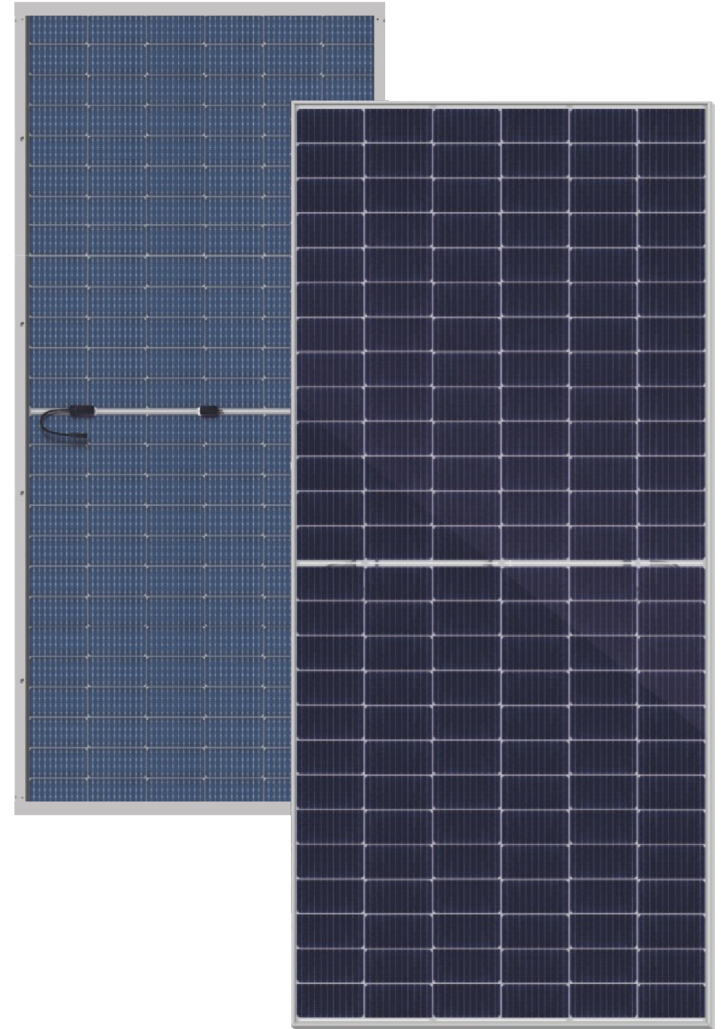
Power Output

**1500V DC**

Max. System Voltage

**22.35 %**

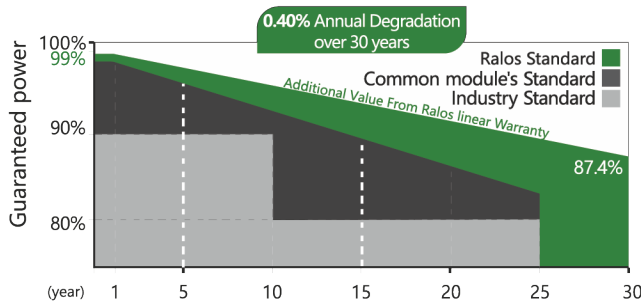
Max. Efficiency



## 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.

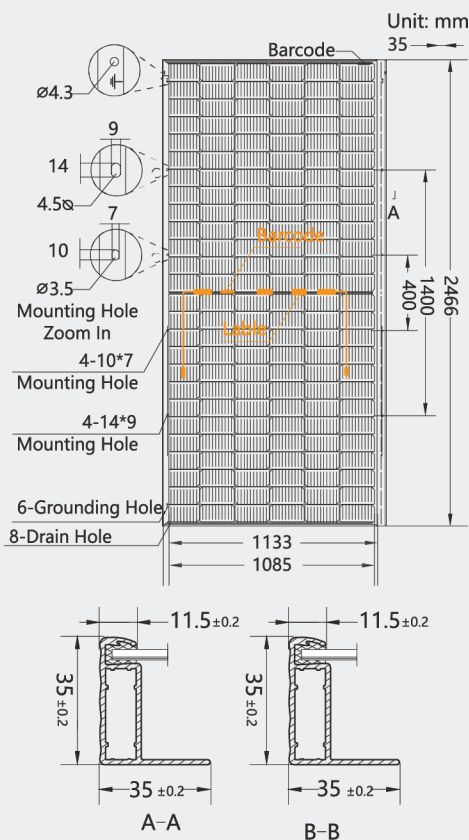
### Reg. Office:

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

### Factory Address :

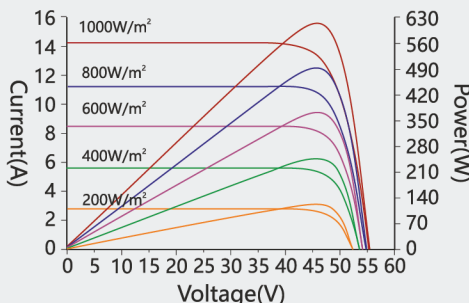
Survey No: 192, At Dudhathal Village, Taluko-Kapadvanj, Dist.Kheda, Pin 387 620, Gujarat, India.

### Dimensions of PV Module

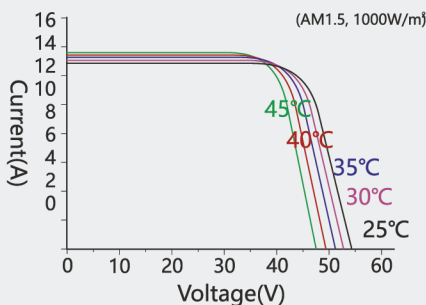


#### ASPL-615W-182M/156TB

I-V characteristics at different irradiances  
Cells temp.=25°C



I-V characteristics at different temperatures



### ELECTRICAL CHARACTERISTICS (STC\*)

Model Number	ASPL-605W-182M/156TB	ASPL-610W-182M/156TB	ASPL-615W-182M/156TB	ASPL-620W-182M/156TB	ASPL-625W-182M/156TB
Rated Power in Watts-Pmax(Wp)	605	610	615	620	625
Open Circuit Voltage-Voc(V)	55.17	55.31	55.44	55.58	55.72
Short Circuit Current-Isc(A)	13.95	14.03	14.11	14.19	14.27
Max. Power Voltage-Vmpp(V)	45.42	45.60	45.77	45.93	46.10
Max. Power Current-Impp(A)	13.32	13.38	13.44	13.50	13.56
Module Efficiency(%)	21.63	21.81	21.99	21.17	22.35
Maximum system voltage	1500V DC				
Fuse Rating(A)	30				
Temperature coefficient Pmax	-0.30%/°C				
Temperature coefficient Isc	0.046%/°C				
Temperature coefficient Voc	-0.25%/°C				
Refer. Bifacial Factor	80±5%				

\*STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

#### Electrical characteristics with different rear side power gain

Gain	Pmax(Wp)	Efficiency(%)	Pmax(Wp)	Efficiency(%)	Pmax(Wp)	Efficiency(%)	Pmax(Wp)	Efficiency(%)
5%	635	22.73	641	22.91	646	23.10	651	23.29
	656	23.48						
15%	696	24.89	702	25.10	707	25.30	713	25.51
	719	25.71						
25%	756	27.05	763	27.28	769	27.50	775	27.73
	781	27.95						

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.

### WORKING CHARACTERISTICS (NOCT\*)

Model Number	ASPL-605W-182M/156TB	ASPL-610W-182M/156TB	ASPL-615W-182M/156TB	ASPL-620W-182M/156TB	ASPL-625W-182M/156TB
Rated Power in Watts-Pmax(Wp)	455	459	462	466	470
Open Circuit Voltage-Voc(V)	52.41	52.54	52.66	52.79	52.93
Short Circuit Current-Isc(A)	11.26	11.33	11.39	11.46	11.52
Max. Power Voltage-Vmpp(V)	42.23	42.35	42.46	42.57	42.68
Max. Power Current-Impp(A)	10.77	10.83	10.89	10.95	11.01
Power tolerance	0~+3%				
NOCT	45°C±2°C				
Operating Temperature	-40°C~85°C				

\*NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

### MECHANICAL CHARACTERISTICS

Number of cells	156pcs	Type of frame	Anodized Aluminum Alloy
Size of cell(mm)	182×91	Size of module(mm)	2466×1133×35
Type of cell	N-TOPCon Mono	Weight(kg)	36.0
Thickness of glass(mm)	2.0	Cables/connectors	4.0mm², MC4 compatible
Junction box	IP68	Length of Cabel	+300mm/-300mm(connector included)

### PACKAGING CONFIGURATION

	40ft (HQ)
Number of Modules Per Container	558
Number of Modules Per Pallet	31
Number of Pallets Per Container	18
Packaging Box Dimensions (l×w×h) (mm)	1260×1120×2595
Box Gross Weight (kg)	1148

#### CAUTION

Read safety and installation instructions before using the product.