



AATMANIRBHAR
ENERGY FOR NATION

URANUS SERIES 0~+5W

550-600W

N-TOPCon | Monocrystalline G2G module

MODEL NO- ASPLXXXTPC144



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 Plant

Contribute to Lower BOS cost and LCOE.



Durability Against Extreme Environmental Conditions

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



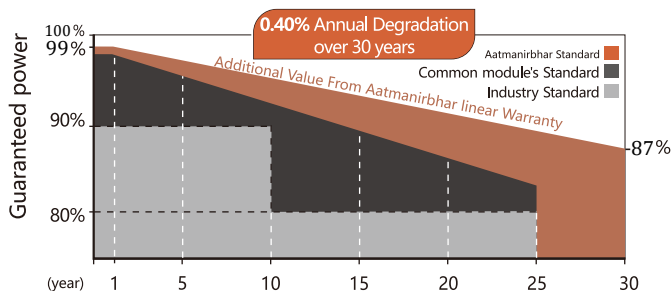
More Outstanding Low-light Performance

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).



MAXIMUM EFFICIENCY %

23.24

CELL TYPE

M10R 144_{CELL}
HALF CUT

MAX. SYSTEM VOLTAGE

1500 V_{DC}

BIFACIALITY FACTOR

75%

PRODUCT CERTIFICATES

ISO 14001 (PART 1) 2015
ISO 14001 (PART 2) 2015
ISO 9001 (PART 1) 2015
ISO 9001 (PART 2) 2015



SYSTEM CERTIFICATES

IS/IEC 61215 : 2021, IS/IEC 14286, IS/IEC 61730, IS/IEC 61730, IEC 61701, IEC 62716, IEC 60068-2-68, IEC 62804

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION:

- ISO 9001:2015/ Quality Management System
- ISO 14001:2015/ Environmental Management System
- ISO 45001:2018/ Occupational Health and Safety Management System

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ELECTRICAL CHARACTERISTICS (STC*)

Model Number	ASPL600TPC144	ASPL595TPC144	ASPL590TPC144	ASPL585TPC144	ASPL580TPC144	ASPL575TPC144	ASPL570TPC144	ASPL565TPC144	ASPL560TPC144	ASPL550TPC144
Peak Power Pmax (Wp)	600	595	590	585	580	575	570	565	560	550
Open Circuit Voltage Voc (V)	52.01	51.84	51.66	51.16	51.47	51.27	51.07	50.87	50.67	50.18
Short Circuit Current Isc (A)	14.75	14.67	14.58	14.55	14.37	14.31	14.25	14.19	14.13	13.98
Maximum Voltage Vmp (V)	42.99	42.87	42.75	42.52	42.60	42.45	42.30	42.15	41.96	41.48
Maximum Current Imp (A)	13.96	13.88	13.80	13.76	13.62	13.55	13.48	13.41	13.35	13.26
Module Efficiency (%)	23.24	23.04	22.85	22.65	22.45	22.26	22.07	21.87	21.68	21.29

1) STC:1000 W/M2 IRRADIANCE, 25°C CELL TEMPERATURE, AM1.5G SPECTRUM ACCORDING TO EN 60904-3 | 2) TOLERANCE OF RATING AT STC (PMPP / ISC / VOC) [%] : 0-3/±5/±5|

WORKING CHARACTERISTICS (NOCT*)

Model Number	ASPL600TPC144	ASPL595TPC144	ASPL590TPC144	ASPL585TPC144	ASPL580TPC144	ASPL575TPC144	ASPL570TPC144	ASPL565TPC144	ASPL560TPC144	ASPL550TPC144
Wp	484.22	480.19	476.15	472.18	468.25	464.21	460.18	456.16	452.08	443.89
Voc	49.35	49.18	49.02	48.54	48.83	48.64	48.46	48.27	48.08	47.61
Isc	11.90	11.84	11.77	11.74	11.60	11.55	11.50	11.45	11.40	11.28
Vmp	42.99	42.87	42.75	42.52	42.60	42.45	42.30	42.15	41.96	41.48
Imp	11.26	11.20	11.14	11.10	10.99	10.94	10.88	10.82	10.77	10.70
Eff	21.80	21.62	21.43	21.25	21.08	20.90	20.71	20.53	20.35	19.98

3)NOCT: Irradiance 800W/m², Module Temperature 45°C ±2, AM 1.5, Ambient Temperature 20°C,Wind Speed-1m/s,Operating Temperature -40°C~85°C measuring Uncertainty ±2%

BI-FACIAL OUTPUT BACKSIDE POWER GAIN'S

5%	Pmax(Wp)	630	624.75	619.5	614.25	609	603.75	598.5	593.25	588	577.5
	Efficiency(%)	24.40	24.20	23.99	23.78	23.57	23.37	23.17	22.96	22.76	22.35
15%	Pmax(Wp)	690	684.25	678.5	672.75	667	661.25	655.5	649.75	644	632.5
	Efficiency(%)	26.72	26.50	26.28	26.05	25.82	25.60	25.38	25.15	24.93	24.48
25%	Pmax(Wp)	750	743.75	737.5	731.5	725	718.75	712.5	706.25	700	687.5
	Efficiency(%)	29.05	28.80	28.56	28.56	28.06	27.83	27.59	27.34	27.10	26.61

MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	12278mm(L) * 1134mm(W) * 30mm(T)
Weight	32 kgs
Solar Cells per Module (Units) / Arrangement	144 cells/(12x6 12x6)
Solar Cell Type & Size	M10R_16BB_Topcon SOLAR CELL
Front Glass (Material / Thickness)	2mm Low iron solar textured glass
BackGlass(Material/Thickness)	2mm Low iron solar textured glass
Junction Box (Protection degree / Material)	IP68/Weatherproof PPO, 3 Diodes
Cable & Connector (Protection degree / Type)	IP68 rated/4 mm ² & MC4 compatible
Cable cross-section & Length	4 mm ² & 300mm
Frame	Anodized Aluminium Alloy

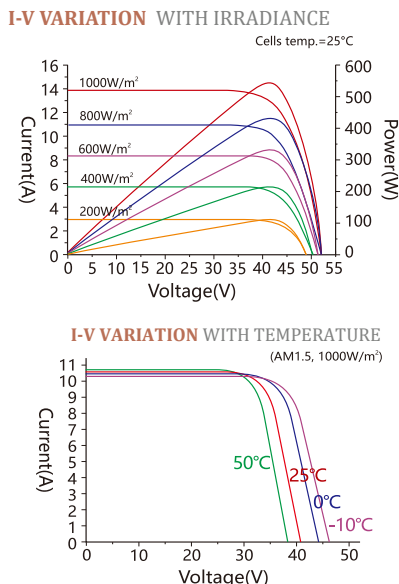
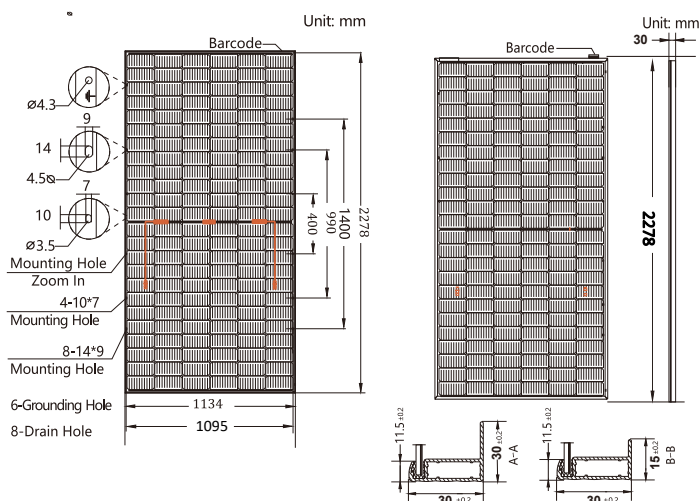
TEMPERATURE COEFFICIENT(Tc)

Maximum system voltage	1500V
Fuse Rating(A)	30A
Temperature coefficient Pmax	-0.302%/°C
Temperature coefficient Isc	+0.044%/°C
Temperature coefficient V oc	-0.256%/°C

PACKAGING INFORMATION

Quantity /Pallet	32
Pallets/Container (40'HC)	22
Quantity/Container (40'HC)	704

Module Dimension



Reg. Office :

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

Factory Address 1 :

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