



AATMANIRBHAR
ENERGY FOR NATION

URANUS SERIES 0~+5W

525-565W

MONOPERC|Monocrystalline Bifacial Module

MODEL NO- ASPL XXXMP144



Higher Power Output

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



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.



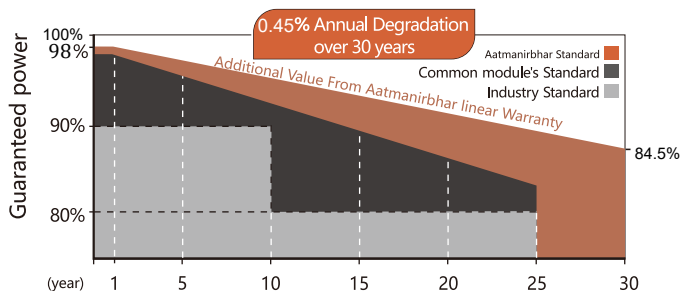
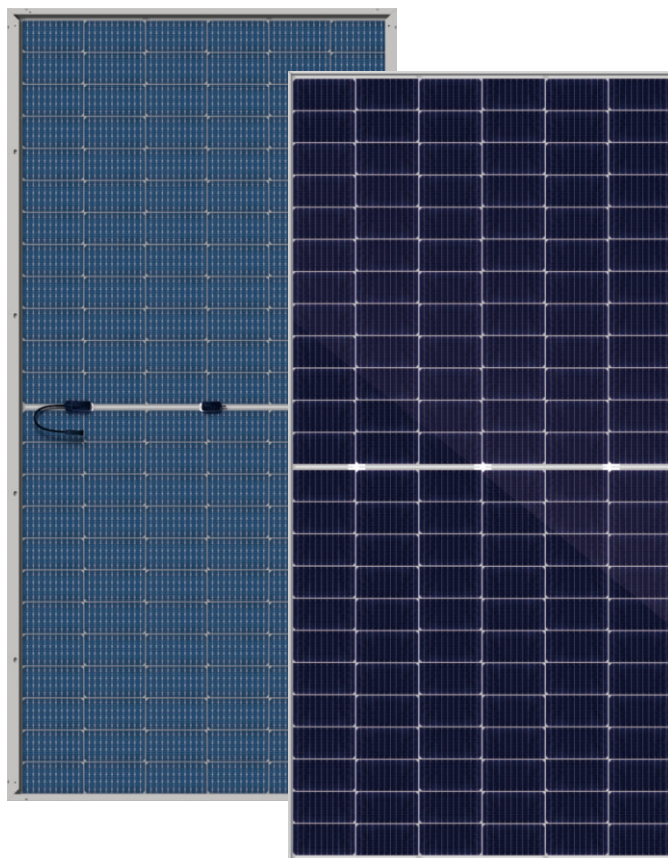
More Outstanding Low-light Performance

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 %

21.88

CELL TYPE

**M10R¹⁴⁴CELL
HALF CUT**

MAX. SYSTEM VOLTAGE

1500 V_{DC}

BIFACIALITY FACTOR

75%

PRODUCT CERTIFICATES

IS 14286 (PART 1) 2022
IS 14286 (PART 2) 2022
IS/IEC 61730 (PART 1) 2022
IS/IEC 61730 (PART 2) 2022



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	ASPL565MP144	ASPL560MP144	ASPL555MP144	ASPL550MP144	ASPL545MP144	ASPL540MP144	ASPL535MP144	ASPL530MP144	ASPL525MP144
Peak Power Pmax (Wp)	565	560	555	550	545	540	535	530	525
Open Circuit Voltage Voc (V)	50.68	50.48	50.29	50.10	49.90	49.69	49.52	49.32	49.12
Short Circuit Current Isc (A)	14.16	14.10	14.03	13.95	13.90	13.86	13.78	13.70	13.63
Maximum Voltage Vmp (V)	42.52	42.36	42.21	42.10	41.90	41.72	41.55	41.41	41.26
Maximum Current Imp (A)	13.29	13.22	13.15	13.07	13.02	12.95	12.88	12.81	12.73
Module Efficiency (%)	21.88	21.69	21.49	21.29	21.10	20.90	20.71	20.52	20.32

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	ASPL565MP144	ASPL560MP144	ASPL555MP144	ASPL550MP144	ASPL545MP144	ASPL540MP144	ASPL535MP144	ASPL530MP144	ASPL525MP144
Wp	455.98	451.94	447.91	444.07	440.27	436.02	431.90	428.10	423.89
Voc	48.08	47.90	47.71	47.53	47.35	47.15	46.98	46.79	46.61
Isc	11.43	11.38	11.32	11.26	11.22'	11.19	11.12	11.06	11.00
Vmp	42.52	42.36	42.21	42.10	41.90	41.72	41.55	41.41	41.26
Imp	10.72	10.67	10.61	10.55	10.51	10.45	10.39	10.34	10.27
Eff	20.53	20.34	20.16	19.99	19.82	19.63	19.44	19.27	19.08

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)	593.25	588	582.75	577.5	572.25	567	561.75	556.5	551.25
	Efficiency(%)	22.98	22.77	22.57	22.35	22.16	21.95	21.75	21.55	21.34
15%	Pmax(Wp)	649.75	644	638.25	631.5	626.75	621	615.25	609.5	603.75
	Efficiency(%)	25.16	24.94	24.72	24.48	24.27	24.04	23.82	23.60	23.37
25%	Pmax(Wp)	706.25	700	693.75	687.5	681.25	675	668.75	662.5	656.25
	Efficiency(%)	27.35	27.11	26.87	26.61	26.38	26.13	25.89	25.65	25.40

MECHANICAL CHARACTERISTICS

Length x Width x Thickness (L x W x T)	2278mm(L) * 1134mm(W) * 35mm(T)
Weight	28.6 kgs
Solar Cells per Module (Units) / Arrangement	144 cells / (12x6 12x6)
Solar Cell Type & Size	M10R_10BB_Bifacial Mono PERC 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

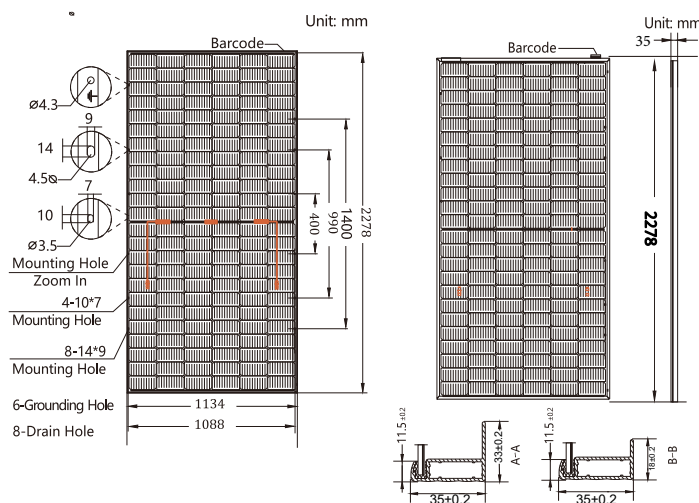
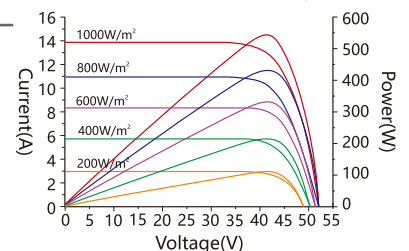
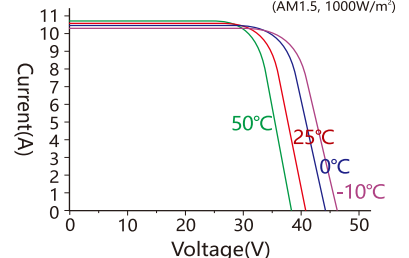
TEMPERATURE COEFFICIENT(Tc)

Maximum system voltage	1500V
Fuse Rating(A)	25A
Temperature coefficient Pmax	-0.302%/°C
Temperature coefficient Isc	+0.044%/°C
Temperature coefficient Voc	-0.256%/°C

PACKAGING INFORMATION

Quantity /Pallet	28
Pallets/Container (40'HC)	22
Quantity/Container (40'HC)	616

Module Dimension

I-V VARIATION WITH IRRADIANCE
Cells temp.=25°CI-V VARIATION WITH TEMPERATURE
(AM1.5, 1000W/m²)

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.