

AIONRISE

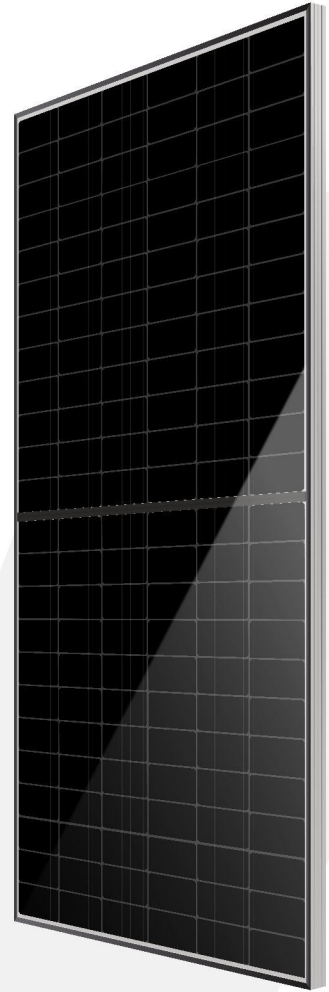
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PHOTOVOLTAIC MODULE SILVER FRAME PERC

AION144HC/M10 Series 530-550 Wp

AIONRISE high-efficiency AION144HC/M10 PV Modules use multi-busbar and half-cut cell technologies generating long-term higher output comparing to other analogs and provide lower levelized cost of energy making better return on investments.

AION144HC/M10 PV Modules are certified by all key quality standards of IEC 62716 / 61215 / 61730, IEC60068-2-68 and with Regular Production Surveillance and Extensive participation in the testing programs of the global independent certification authorities insuring the high reliability, safety, and quality.



POSITIVE POWER TOLERANCE



HOT SPOTS REDUCTION



MINIMIZING THE SHADING IMPACT



LESS MISMATCH MORE OUTPUT



PID RESISTANT



SALT CORROSION RESISTANT



SAND RESISTANT



AMMONIA RESISTANT



LARGE SCALE GROUND INSTALLATION

25
YEARS

PERFORMANCE
GUARANTEE

15
YEARS

PRODUCT
WARRANTY

GUARANTEED MODULE PERFORMANCE



MODULE TYPE

ELECTRICAL CHARACTERISTICS	STC		NOCT		STC		NOCT		STC		NOCT		STC		NOCT	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Max. power (Pmax / Wp)	530	394	535	398	540	402	545	406	550	410						
Open circuit voltage (Voc / V)	49.26	46.50	49.40	46.63	49.53	46.75	49.67	46.88	49.80	47.00						
Short circuit current (Isc / A)	13.69	11.06	13.77	11.12	13.85	11.19	13.93	11.25	14.01	11.32						
Max. power voltage (Vmp / V)	40.74	37.92	40.88	38.05	41.01	38.19	41.15	38.32	41.28	38.46						
Max. power current (Imp / A)	13.01	10.40	13.09	10.46	13.17	10.52	13.24	10.58	13.32	10.64						
Module efficiency at STC (ηm / %)	20.6		20.8		21.0		21.22		21.4							
Power tolerance (Pmax)	(0,+5) Wp															

STC: Irradiance of 1000 W/m² with spectrum AM 1.5 and a module temperature of 25°C

NOCT: Irradiance 800W/m², ambient temperature 20°C, a module temperature of 45°C and wind speed 1 m/s

TEMPERATURE PARAMETERS

Temperature Coefficient of Pmax	-0.35 % / °C
Temperature Coefficient of Voc	-0.27 % / °C
Temperature Coefficient of Ic	+0.048 % / °C
Operating Temperature	-40°C to +85 °C
Normal Operating Cell Temperature (NOCT)	44±2°C

MAXIMUM RATING

Max. System Voltage	1500V DC -(H)
Max. Series Fuse Rating	28A

MATERIAL CHARACTERISTICS

Dimensions	2279 x 1134 x 35 mm
Weight	29.4 kg
Number of cells	144 pcs (6*24)
Cells Type	10BB (182 mm)
Glass	3.2 mm AR coated tempered glass / low iron
Frame	Silver anodized aluminum alloy
Junction box	IP68 / 3 diodes
Connector type	MC Compatible
Cable	4.0mm ² , 300mm
Uplift load (wind)	2400 Pa
Downforce load (snow)	5400 Pa

PACKAGING INFORMATION

One pallet quantity	31 pcs
40 ft HC/HQ container	620 pcs

CERTIFICATES

IEC62716 (Ammonia), IEC60068-2-68(Sand)
IEC61215 / 61730



DIMENSIONS

