

AIONRISE

Generate | Store | Utilise

PHOTOVOLTAIC MODULE SILVER FRAME SHINGLED

AION408SH Series 470-490 Wp

AIONRISE high-efficiency AION408SH PV Modules use shingled cell technologies providing long-term higher output comparing to other analogs and provide lower levelized cost of energy making better return on investments.

AION408SH PV Modules are certified by all key quality standards of IEC 61215 / 61730 / 62716 / 61701 / 60068, and UL 61730 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



SHINGLING
TECHNOLOGY



LOW SYSTEM
COST



MINIMIZING THE
SHADING IMPACT



PID
RESISTANT



SALT CORROSION
RESISTANT



SAND
RESISTANT



HOT SPOTS
REDUCTION



AMMONIA RESISTANT



ECO-FRIENDLY

25
YEARS

PERFORMANCE
GUARANTEE

15
YEARS

PRODUCT
WARRANTY

GUARANTEED MODULE PERFORMANCE



MAXIMUM RATED PARAMETERS

Max. system voltage DC	1500/1000 V
Max. fuse rating	20 A
Operating temperature	-40°C to 85°C
Max. front static load	5400 Pa
Hail resistance	Max. 25mm, impact speed 23m/s

MATERIAL CHARACTERISTICS

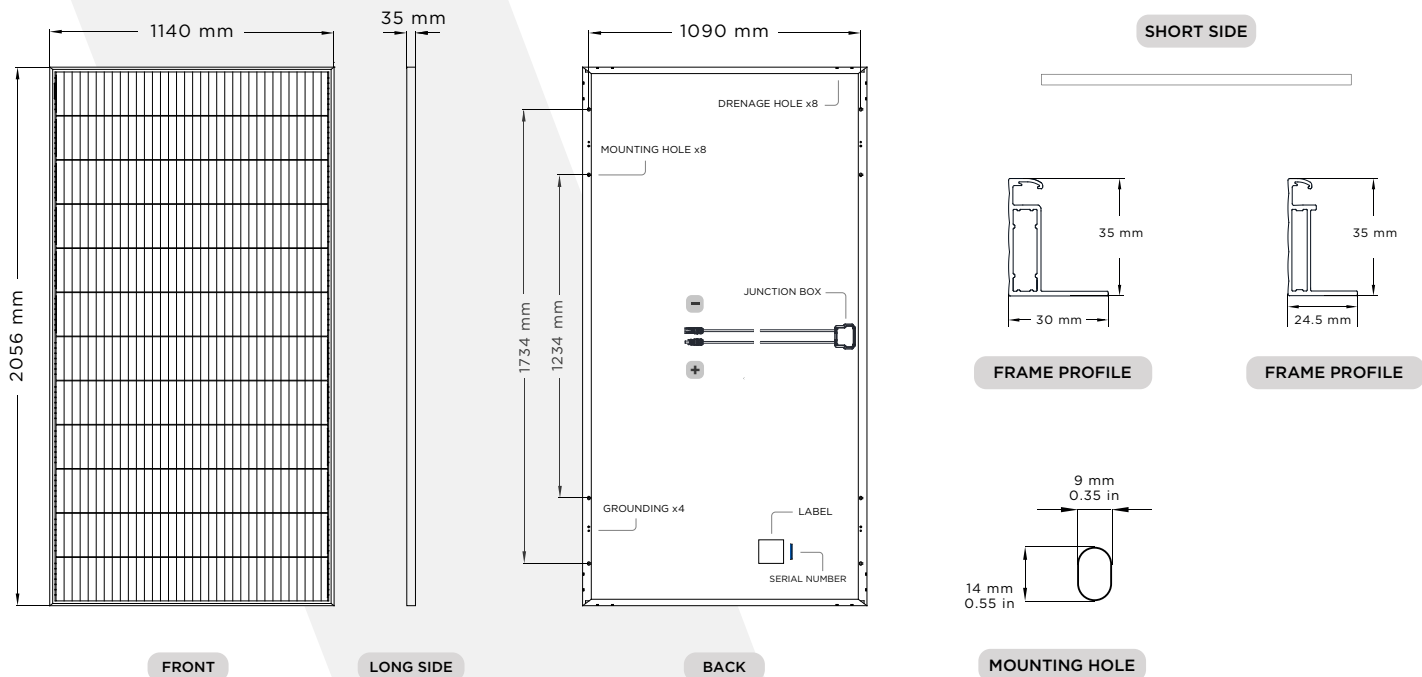
Dimensions	2056x1140x35 mm
Weight	25 kg
Glass	3.2 mm AR coated tempered glass/low iron
Cells	Mono-crystalline
Cell layout	408 (34*12)
Frame	Anodized aluminum alloy
Junction box	IP 68 rated, 2 bypass diods
Output cable	4 mm ² , 1200mm, customizable
Connector	Staubli MC4 / MC4-Evo 2 / Compatible

PACKAGING

One pallet quantity	31 pcs
40 ft HC / HQ Container	682 pcs
Truck	992 pcs

DIMENSIONS

(in mm)



ELECTRICAL CHARACTERISTICS (STC)

AION408SH

Nominal maximum power - P _{max} (Wp)	490	485	480	475	470
Open-circuit voltage - Voc (V)	46.7	46.6	46.6	46.5	46.4
Short-circuit current - I _{sc} (A)	13.28	13.22	13.16	13.10	13.04
Maximum power voltage - V _{mp} (V)	38.9	38.8	38.8	38.7	38.6
Maximum power current - I _{mp} (A)	12.60	12.50	12.37	12.27	12.18
Module efficiency - η _m (%)	20.9	20.7	20.5	20.3	20.1

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum power - P _{max} (Wp)	369	365	361	358	354
Open-circuit voltage - Voc (V)	44.5	44.4	44.4	44.3	44.2
Short-circuit current - I _{sc} (A)	10.72	10.67	10.62	10.57	10.52
Maximum power voltage - V _{mp} (V)	37.1	37.0	37.0	36.9	36.8
Maximum power current - I _{mp} (A)	9.95	9.87	9.77	9.69	9.62

TEMPERATURE PARAMETERS

NMOT	42.30±2 °C
Temperature coefficient of maximum power (P _{max})	-0.34 % / °C
Temperature coefficient of open-circuit voltage (Voc)	-0.27 % / °C
Temperature coefficient of short-circuit current (I _{sc})	+0.04 % / °C

- STC: Irradiance 1000 W/m², spectrum AM 1.5, temperature 25°C.
- NMOT: Irradiance 800 W/m², wind speed 1 m/s, temperature 20°C.
- P_m tolerance: 0 to +5W. Power test uncertainty: ±3%, Voc (V), I_{sc} (A), V_m (V) and I_m (A). Test tolerance: ±3%.

CERTIFICATES

IEC61215/61730 IEC62804(PID) IEC61701 (Salt)
 IEC62716 (Ammonia), IEC60068-2-68(Sand)
 IC TS 62941 -2016 / PV industry quality management system



CONTACT INFORMATION

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