

ASTORIOS

per aspera ad astra



PHOTOVOLTAIC MODULE

ASTR MB6-58SC Series 535-560 Wp

SHINGLED CELLS

560 W
MAXIMUM POWER OUTPUT

21.4 %
MAXIMUM MODULE EFFICIENCY



MORE YIELD

PV modules are positive tolerance current level sorted bringing to increase in energy yield and avoiding solar panel degradation due to mismatch



HOT SPOTS RISK REDUCTION

Sophisticated electrical design, cells sorting, cutting and soldering technology leads to low hot spot risk and temperature control



HIGH QUALITY GLASS

Additional yield and easy maintenance are provided by high transparent and self-cleaning glass



SHINGLING TECHNOLOGY

Adhesive bonded, innovative high-density shingled cells layout technology



MINIMIZING THE SHADING IMPACT

Better partial-shade tolerance and high effective power generation hours due to full parallel arrangement



PID RESISTANT

Selected encapsulants, precision in manufacturing quality control makes modules highly PID resistant and snail trails free



SAND, AMMONIA AND SALT MIST RESISTANCE

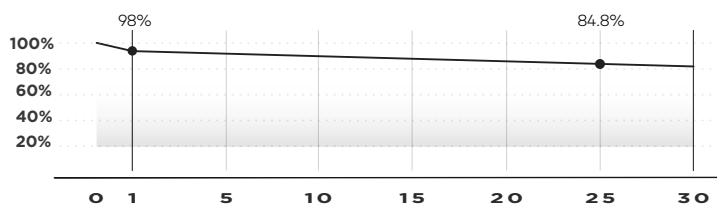
Sand blowing, ammonia and salt mist resistance tests have been passed by international standards to ensure operation in harsh conditions



SUPERIOR APPEARANCE

Uniform and solid layout, high tech look

PERFORMANCE



30 YEARS

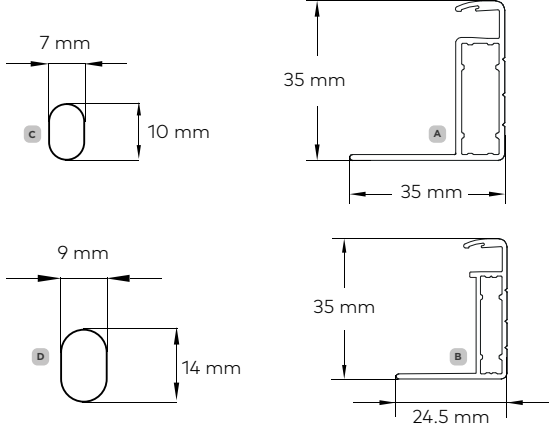
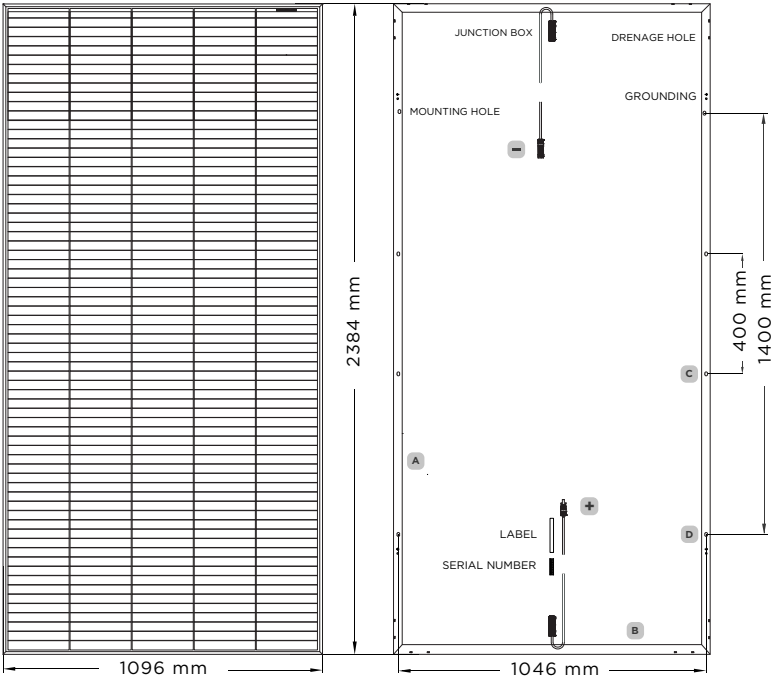
Performance Guarantee

15 YEARS

Product Warranty

ASTORIOS

per aspera ad astra



PACKAGING INFORMATION

One pallet quantity	31 pcs
40 ft HC/HQ container	620 pcs
Truck	868 pcs

TEMPERATURE PARAMETERS

Temperature Coefficient of Pmax	-0.34 % / °C
Temperature Coefficient of Voc	-0.27 % / °C
Temperature Coefficient of Isc	+0.04 % / °C
Operating Temperature	-40°C to +85 °C
Nominal Module Operating Temperature (NMOT)	42.3±2°C

MAXIMUM RATINGS

Max. System Voltage	1000/1500V DC (IEC)
Max. Series Fuse Rating	25A
Uplift load (wind)	2400 Pa*
Downforce load (snow)	5400 Pa*
Hail Resistance	Max. diameter 25 mm, impact speed 23 m/s

MATERIAL CHARACTERISTICS

Dimensions	2384 x 1096 x 35 mm
Weight	28.3 kg
Glass	3.2 mm AR coated tempered glass, low iron
Cells	Mono-crystalline
Cell layout	345 (69*5)
Frame	Anodized aluminum alloy
Junction box	IP 68 rated, 3 bypass diods
Output cable	4 mm ² , +300 mm/-1000 mm (Vertical), +250 mm/-150 mm (Horizontal)
Connector	Staubli MC4 / MC4-Evo 2 / MC4 Compatible

*For more information please refer to Instruction Manual

MODULE TYPE	MB6-58SC	535 Wp	540 Wp	545 Wp	550 Wp	555 Wp	560 Wp					
ELECTRICAL CHARACTERISTICS	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum power (Pmax / Wp)	535	403	540	407	545	410	550	414	555	418	560	422
Open circuit voltage (Voc / V)	46.8	44.6	46.9	44.7	47.0	44.8	47.1	44.9	47.2	45.0	47.3	45.1
Short circuit current (Isc / A)	14.65	11.80	14.76	11.89	14.86	11.97	14.97	12.06	15.07	12.14	15.17	12.22
Maximum power voltage (Vmp / V)	38.8	37.0	38.9	37.1	39.0	37.2	39.1	37.3	39.2	37.3	39.3	37.4
Maximum power current (Imp / A)	13.77	10.88	13.87	10.96	13.97	11.03	14.07	11.11	14.17	11.19	14.26	11.27
Module efficiency at STC (ηm / %)	20.5		20.7		20.9		21.0		21.2		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
 NMOT: Irradiance 800 W/m², ambient temperature 20°C and wind speed 1 m/s

CERTIFICATES

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



I-V Curves

