

ASTORIOS

per aspera ad astra



BIFACIAL DOUBLE GLASS PHOTOVOLTAIC MODULE

ASTR MB6-58SDC Series 535-555 Wp

SHINGLED CELLS

555 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

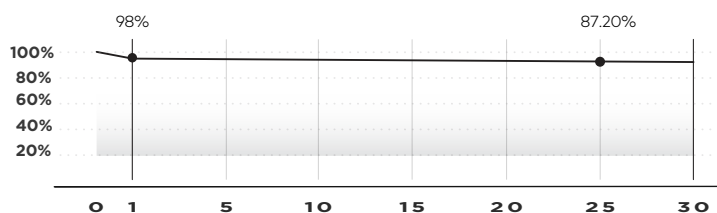
Sand blowing, ammonia and salt mist resistance tests have been passed by international standards to ensure operation in harsh conditions



SUPERIOR APPEARANCE

Uniform and solid layout, high tech look

PERFORMANCE



30 YEARS

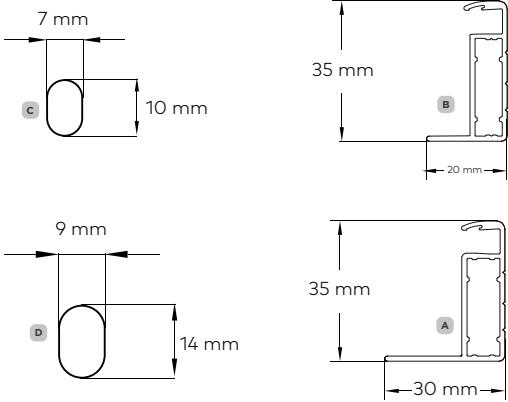
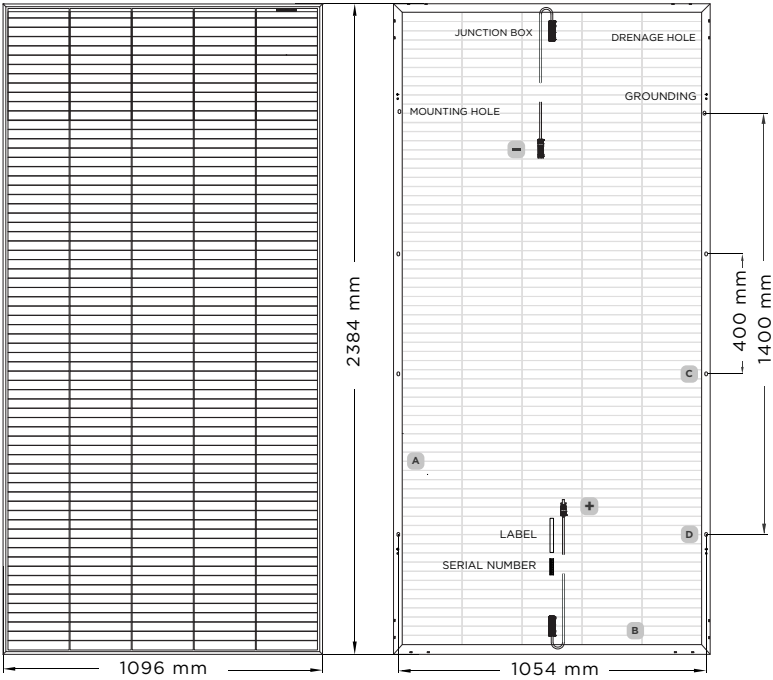
Performance Guarantee

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	1500V DC (IEC)
Max. Series Fuse Rating	30A
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	32.5 kg
Glass front/rear	2 mm AR coated tempered, 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), +220 mm/-180 mm (Horizontal)
Connector	Staubli MC4 / MC4-Evo 2 / MC4 Compatible

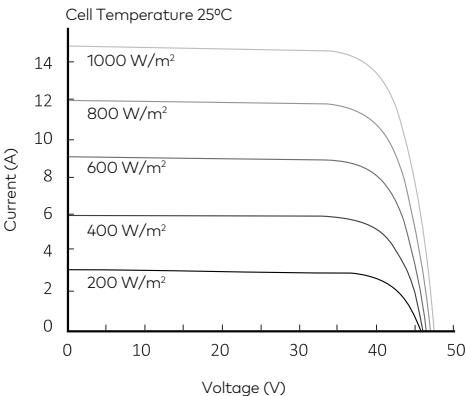
*For more information please refer to Instruction Manual

MODULE TYPE	MB6-58SC		530 Wp		535 Wp		540 Wp		545 Wp		550 Wp		555 Wp	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
ELECTRICAL CHARACTERISTICS														
Maximum power (Pmax / Wp)	530	398	535	401	540	405	545	409	559	413	555	416		
Open circuit voltage (Voc / V)	46.7	44.4	46.8	44.5	46.9	44.6	47.0	44.7	47.1	44.8	47.2	44.9		
Short circuit current (Isc / A)	14.55	11.72	14.65	11.80	14.76	11.89	14.86	11.97	14.97	12.06	15.07	12.14		
Maximum power voltage (Vmp / V)	38.8	37.0	38.8	37.0	38.9	37.1	39.0	37.2	39.1	37.3	39.2	37.3		
Maximum power current (Imp / A)	13.67	10.76	13.79	10.84	13.89	10.92	13.98	10.99	14.07	11.07	14.17	11.15		
Module efficiency at STC (ηm / %)	20.3		20.5		20.7		20.9		21.0		21.2			
Power tolerance (Pmax)	(0,+5) Wp													

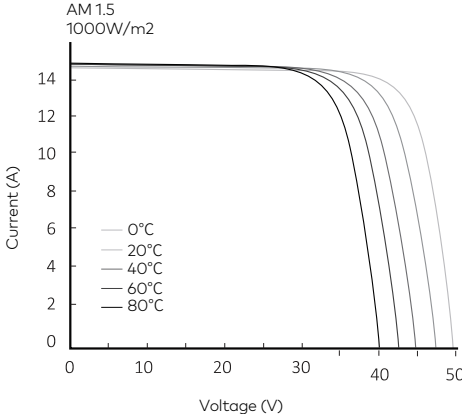
STC: Irradiance of 1000 W/m² with spectrum AM 1.5 and a module temperature of 25°C
 NMOT: Irradiance 800 W/m², ambient temperature 20°C and wind speed 1 m/s

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



ASTORIOS Holding Inc.
 16192 Coastal Highway, Lewes,
 Delaware 19958, County of Sussex, USA
 info@astorios.com