

ASTORIOS per aspera ad astra

PHOTOVOLTAIC MODULE

ASTR 156HC/10 Series 565-585 Wp

HALF CUT PERC CELLS

585 Wp
MAXIMUM POWER OUTPUT

21.4%
MAXIMUM MODULE EFFICIENCY



MORE YIELD

PV modules are positive tolerance current lever 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



MULTI BUSBAR TECHNOLOGY

Better light absorption and current collection for better power output



MINIMIZING THE SHADING IMPACT

Better partial-shade tolerance due to separated half panel string wiring



PID RESISTANT

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



SAND, AMMONIA AND SALT MIST RESISTANCE

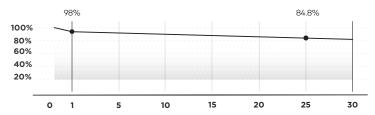
Sand blowing, ammonia and salt mist resistance tests have been passed by international standards to ensure operation in harsh conditions



SUPERIOR SAFETY AND RELIABILITY

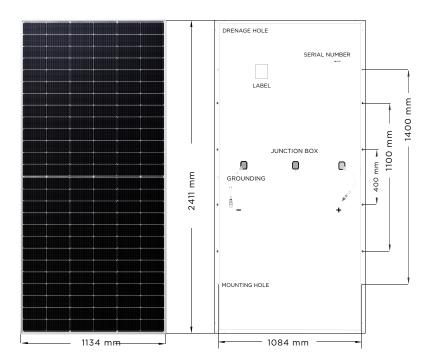
Tested to avoid microcracks and welding cracks, can withstand high pressure loads, passed multi-step quality control

PERFORMANCE



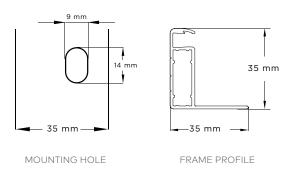






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MATERIAL CHARACTERISTICS

2411 x 1134 x 35 mm Dimensions Weight 30.6 kg Number Of Cells 156 pcs (6x26) Mono-crystalline, Half Cut PERC 10BB (182mm) Cells Glass 3.2 mm, High transparancy, AR coated Frame Silver color, Anodized aluminum alloy Junction box IP68 Rated, 3 bypass diodes Connector type Staubli MC4-Evo 2 / MC4 (Original) Cable $4\,mm^2,300\,mm$

PACKAGING INFORMATION

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

TEMPERATURE PARAMETERS

Temperature Coefficient of Pmax -0.35 % (°C Temperature Coefficient of Voc -0.27% (°C Temperature Coefficient of Isc +0.048 % (°C Operating Temperature -40% to +85% Nominal Module Operating Temperature (NMOT) $-44\pm2\%$

MAXIMUM RATINGS

 Max. System Voltage
 1500V DC -(H)

 Max. Series Fuse Rating
 25 A

 Uplift load (wind)
 2400 Pa*

 Downforce load (snow)
 5400 Pa*

^{*}For more information please refer to Instruction Manual

MODULETYPE 156HC/10	565 Wp		570	570 Wp		575 Wp		580 Wp		585 Wp	
ELECTRICAL CHARACTERISTICS	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	
Maximum power (Pmax / Wp)	565	420	570	424	575	428	580	432	585	435	
Open circuit voltage (Voc / V)	53.53	50.53	53.61	50.60	53.70	50.69	53.81	50.79	53.92	50.89	
Short circuit current (Isc / A)	13.48	10.89	13.55	10.94	13.62	11.00	13.70	11.07	13.78	11.13	
Maximum power voltage (Vmp / V)	44.08	41.05	44.19	41.17	44.30	41.29	44.41	41.41	44.52	41.53	
Maximum power current (Imp / A)	12.82	10.24	12.90	10.30	12.98	10.36	13.06	10.42	13.14	10.48	
Module efficiency at STC (ηm / %)	20.6		20.8		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

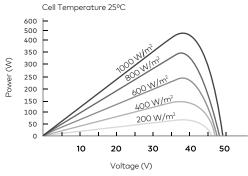
CERTIFICATES

IEC62716 (Ammonia) IEC60068-2-68 (Sand) IEC61215 / 61730 / 61701

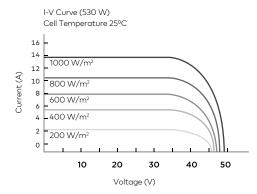








P-V Curve at Different Irradiation (530 W)





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