

ASTORIOS

per aspera ad astra

BIFACIAL, DOUBLE GLASS PHOTOVOLTAIC MODULE

ASTR 110HCD/12 Series 555-565 Wp

HALF CUT PERC CELLS

565 WpMAXIMUM POWER OUTPUT

21.6%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



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

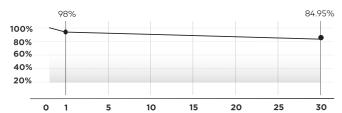
Sand blowing, ammonia and salt mist resistance tests have been passed by international standards to ensure operation in harsh conditions



SUPERIOR SAFETY AND RELIABILITY

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





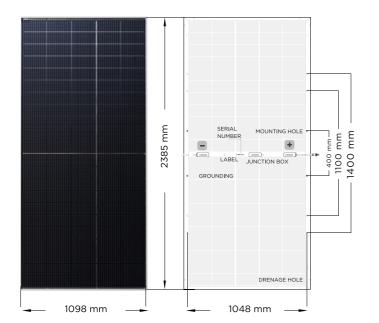
30 YEARS

Performance Guarantee

15 YEARS

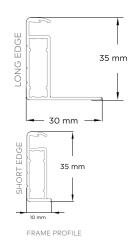
Product Warranty

info@astorios.com www.astorios.com



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MATERIAL CHARACTERISTICS

Dimensions 2385 × 1098 × 35 mm Weight 32.1 kg Number of cells 110 pcs (5x22) Glass front/back 2mm, High transparency, AR coated Cell layout Bifacial, Half Cut PERC 12BB Frame Silver color, anodized aluminum alloy IP68 Rated, 3 bypass diodes Junction box Connector type Staubli MC4-Evo 2 / MC4 (Original) Cable 4 mm², 300 mm

PACKAGING INFORMATION

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

TEMPERATURE PARAMETERS

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

MAXIMUM RATINGS

Max. System Voltage 1500V DC - (H) Max. Series Fuse Rating 35A Uplift load (wind) 2400 Pa* Downforce (snow) 5400 Pa*

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

MODULE TYPE 110HCD/12	555 Wp	560 Wp	565 Wp
ELECTRICAL CHARACTERISTICS	STC NMOT	STC NMOT	STC NMOT
Maximum power (Pmax/Wp)	555 420	560 425	565 429
Open circuit voltage (Voc / V)	38.10 35.90	38.30 36.10	38.50 36.30
Short circuit current (Isc / A)	18.56 14.96	18.61 15.00	18.66 15.04
Maximum power voltage (Vmp / V)	31.80 29.60	32.00 29.80	32.19 30.00
Maximum power current (Imp / A)	17.45 14.23	17.51 14.27	17.56 14.30
Module efficiency at STC (ηm / %)	21.20	21.40	21.60
Power tolerance (Pmax)		0~+3%	

NMOT: Irradiance 800 W/m2, ambient temperature 20°C and wind speed 1 m/s

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

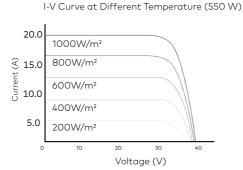
CERTIFICATES

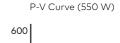
IEC62716 (Ammonia) IEC60068-2-68 (Sand) IEC61215 / 61730 / 61701

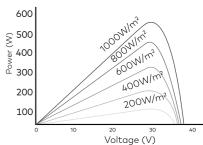














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