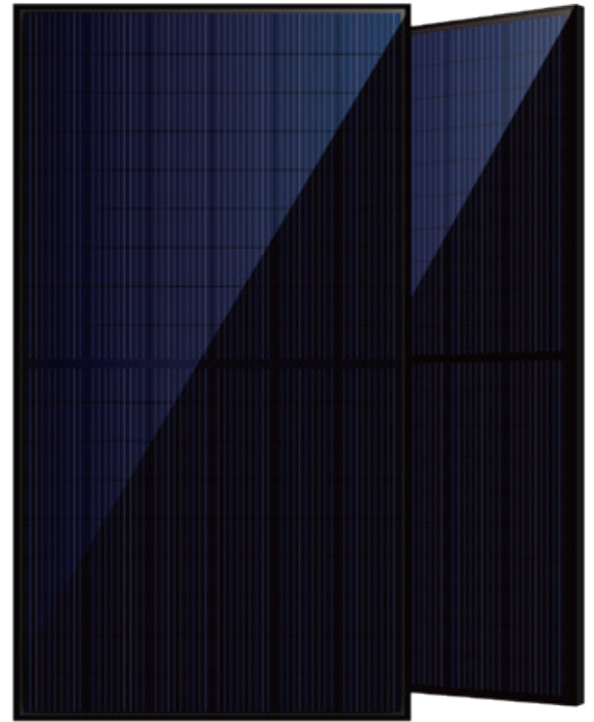


N-TYPE Series

415-435W

22.3% MODULE EFFICIENCY **0~+5w** POSITIVE POWER TOLERANCE

Type: HGT-S108|N10Hb-xxx



435w

Max. Power Output



HIGH CUSTOMER VALUE

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) cost, shorter payback time
- Lower guaranteed first year and annual degradation
- Bifacial solar cell, symmetrical design



HIGH RELIABILITY

- 15 years materials warranty, 30 years power warranty.
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load. Full electrical isolation, Zero leakage current
- Much Safer for roof



BETTER LOW IRRADIANCE PERFORMANCE

- Higher power output even under low irradiance environments like on cloudy or foggy days



HIGH POWER UP TO 435W

- SMBB technology reduces the distance between busbars and finger grid lines, improving reliability and increasing output



EXTENSIVE APPLICATION SCENES

- More extensive application scenes, such as BIPV, snow field, high salt mist, high humidity, strong wind and desert region

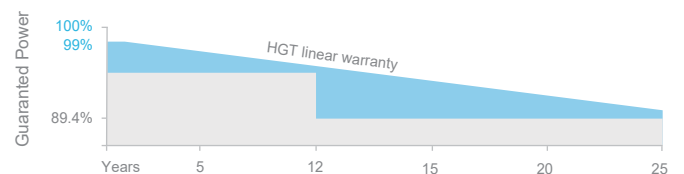
Materials and workmanship warranty **15** Years

1.00%
First Year Power Degradation

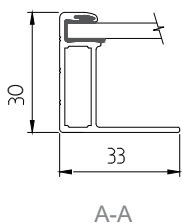
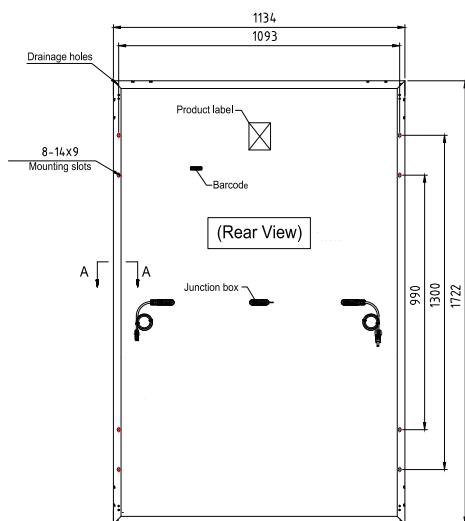
Linear power warranty **25** Years

0.40%
Annual Degradation

PERFORMANCE WARRANTY



DIMENSIONS OF PV MODULE(mm)



ELECTRICAL DATA (STC)

	415W	420W	425W	430W	435W
Maximum Power (Pmax)	415W	420W	425W	430W	435W
Power Tolerance-P _{MAX} (W)	0 ~ +5W				
Maximum Power Voltage (Vmp)	32.75V	32.92V	33.09V	33.26V	33.43V
Maximum Power Current (Imp)	12.67A	12.76A	12.85A	12.93A	13.01A
Open Circuit Voltage (Voc)	38.70V	38.85V	39.00V	39.15V	39.30V
Short Circuit Current (Isc)	13.52A	13.57A	13.62A	13.67A	13.72A
Module Efficiency η_m (%)	21.3%	21.5%	21.8%	22.0%	22.3%

STC: Irradiance 1000W/m², Cell Temperature 25 °C, Air Mass AM1.5.
*Measuring tolerance: ±3%.

ELECTRICAL DATA (NMOT)

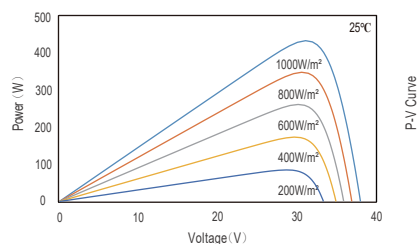
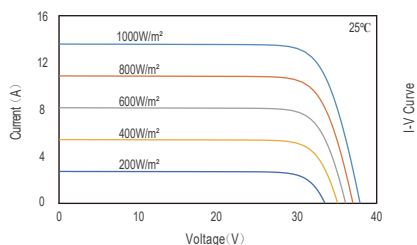
	312.0W	316.0 W	320.0W	324.0W	327.8W
Maximum Power (Pmax)	312.0W	316.0 W	320.0W	324.0W	327.8W
Maximum Power Voltage (Vmp)	30.47V	30.64V	30.81V	30.98V	31.14V
Maximum Power Current (Imp)	10.24A	10.31A	10.39A	10.46A	10.52A
Open Circuit Voltage (Voc)	36.73V	36.89V	37.04V	37.19V	37.33V
Short Circuit Current (Isc)	10.84A	10.90A	10.96A	11.02A	11.06A

NMOT: Irradiance at 800W/m², Ambient Temperature 20 °C, Air Mass AM1.5, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	182.00mm x 91.0mm
No.of cells	108 cells (6x18)
Module Dimensions	1722 × 1134 × 30 mm
Weight	20.5 kg
Glass	High Transmission, AR Coated fully tempered Glass
Frame	Anodized Aluminium Alloy
J-Box	IP 68 rated (3 bypass diodes)
Backsheet	Black
Cables	4.0mm ² cable length +350mm/-350mm or customized length
Connector	MC4 Compatible

Current-Voltage &Power-Voltage Curve(430W)



TEMPERATURE RATINGS

NMOT(Nominal Operating Cell Temperature)	42 ± 2 °C
Temperature Coefficient of P _{MAX}	-0.300%/°C
Temperature Coefficient of V _{OC}	-0.250%/°C
Temperature Coefficient of I _{SC}	0.045%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

MAXIMUM RATINGS

Operational Temperature	-40~+85 °C
Maximum System Voltage	1500V/DC(IEC)
Max Series Fuse Rating	25A

WARRANTY

15 year Product Workmanship Warranty
25 year Power Warranty
1% first year degradation
0.40% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Pieces per pallet	36
Pallets per container	26
Pieces per container 40'HC	936
Packaging box dimensions	1770x1140x1270mm
Packaging box weight	813kg