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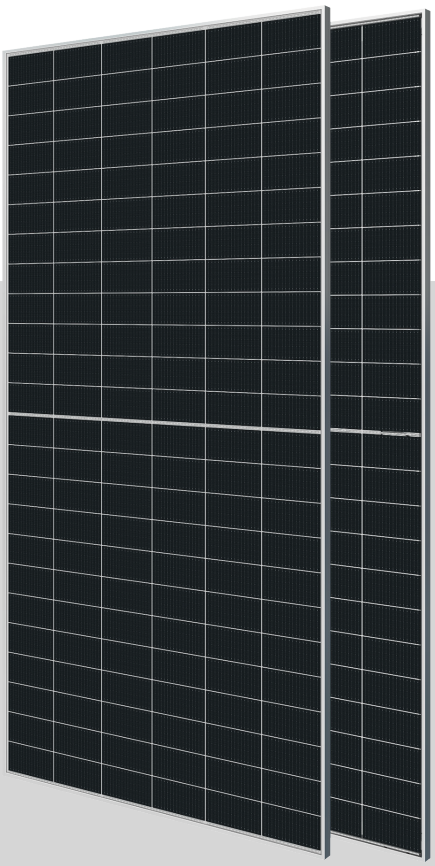
HIGON TOPCON

HGN-72HC10B

575-595Wp

BIFACIAL DOUBLE GLASS HALF CELL MODULE



- N Type technology: The N-type module has better reliability and lower LID/LETID
- Regional value creation, made without lead and produced using 100% renewable energy
- Higher power output even under low irradiance environments, like on cloudy or foggy days
- Excellent rear side power generation, bifaciality is up to 80%, up to 30% more energy yield than conventional modules
- Sand blowing test, salt mist test and ammonia test passed to endure harsh environments

Higon Reliable Quality

- World-class manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO 9001, ISO 14001 and ISO 45001
- Long term reliability tests
- 3X100% EL inspeciton ensuring defect-free modules

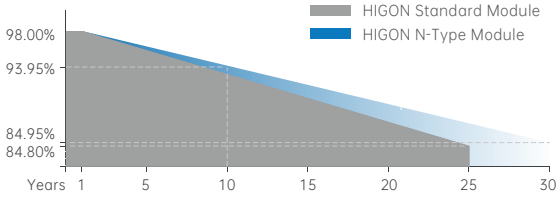
TÜVRheinland CERTIFIED CE ISO

THE IDEAL SOLUTION FOR:

Ground-mounted solar plants

Performance Warranty

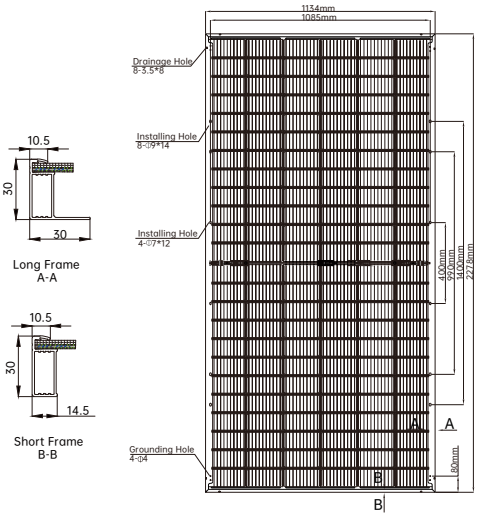
15 Years Product Warranty
30 Years Linear Power Warranty
2% Degradation in 1st year
4.5% Annual Degradation Over 30 Years



HIGON TOPCON HGXXXN-72HC10B(XXX=575-595Wp)

Mechanical Characteristics

Solar Cell	N-Type mono-crystalline
No. of Cells	144 (6×24)
Dimensions	2278×1134×30mm
Weight	32.1 kg
Front Glass	High transparency solar glass 2.0mm
Back Glass	High transparency solar glass 2.0mm
Junction Box	IP68 rated(3 bypass diodes)
Connector	MC Compatible
Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	25A
Wind/ Snow Load	2400Pa/ 5400Pa



Electrical Characteristics

POWER CLASS	575		580		585		590		595	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power(Pmax/W)	575	432.4	580	436.2	585	439.9	590	443.7	595	447.4
Operating Voltage(Vmp/V)	43.85	41.25	43.95	41.37	44.05	41.49	44.20	41.60	44.33	41.72
Operating Current(Imp/A)	13.12	10.48	13.20	10.54	13.27	10.60	13.35	10.66	13.42	10.72
Open-Circuit Voltage(Voc/V)	52.15	49.54	52.30	49.68	52.45	49.82	52.60	49.96	52.75	49.45
Short-Circuit Current(Isc/A)	13.89	11.21	13.98	11.29	14.08	11.37	14.18	11.45	14.26	11.51
Module Efficiency(%)	22.3		22.5		22.6		22.8		23.0	

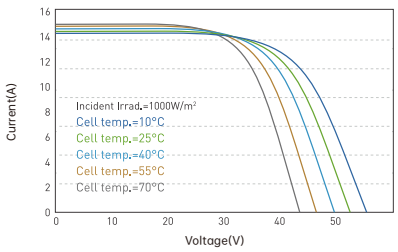
STC: Irradiance 1000 W/m2, module temperature 25 °C, AM=1.5;
NMOT: Irradiance 800 W/m2 , ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

Different Rearside Power Gain Referene to 575W Front

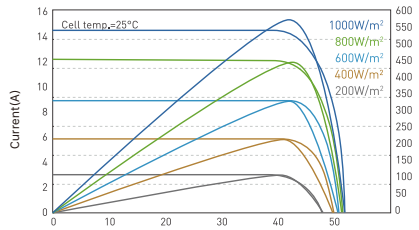
Rearside Power Gain	5%	10%	20%
Maxinum Power(Pmax/W)	604.0	633.0	690.0
Operating Voltage(Vmp/V)	42.9	42.9	42.9
Operating Current(Imp/A)	14.08	14.75	16.09
Open-Circuit Voltage(Voc/V)	52.0	52.0	52.0
Short-Circuit Current(Isc/A)	14.57	15.27	16.66
Module Efficiency(%)	23.4	24.5	26.7

Graphs

I-V Curve at different Temperature (580W)



I-V/P-V Curve at different Irradiation (580W)



Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	45 ± 2 °C
Temperature Coefficient of Pmax	-0.25%/°C
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	0.045%/°C

Packing Configuration

2310 mm	1130 mm	1250 mm	1062 kg	36 modules	2 pallets stacked	20 pallets 720 modules

Notice: All data and specifications are preliminary and subject to change without notice.

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