

# HIGON TOPCON

## HGN-72HC10

### 565-585Wp

MONOFACIAL  
HALF CELL



N Type technology: The N-type module has better reliability and lower LID/LETID



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



Regional value creation, made without lead and produced using 100% renewable energy.



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



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 inspection ensuring defect-free modules



#### THE IDEAL SOLUTION FOR:



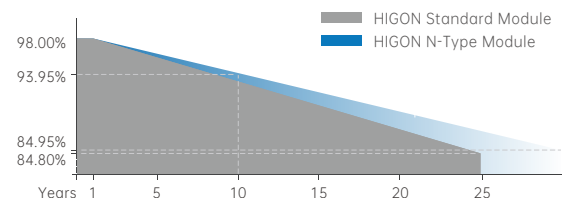
Commercial Rooftop  
Residential Rooftop



Ground-mounted  
solar plants

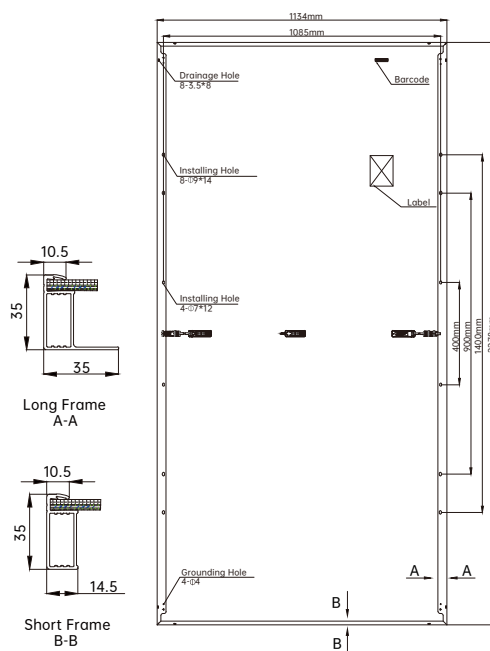
### Performance Warranty

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



## Mechanical Characteristics

Solar Cell	N-Ton(M10)
No. of Cells	144 (6×24)
Dimensions	2278×1134×30mm
Weight	27.8 kg
Front Glass	High transparency solar glass 3.2mm
Cable	4.0mm <sup>2</sup> , 300mm
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	565		570		575		580		585	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power(Pmax/W)	565	425.2	570	428.8	575	432.9	580	436.5	585	440.7
Operating Voltage(Vmp/V)	42.94	40.34	43.15	40.53	43.34	40.72	43.55	40.91	43.75	41.11
Operating Current(Imp/A)	13.16	10.54	13.21	10.58	13.27	10.63	13.32	10.67	13.38	10.72
Open-Circuit Voltage(Voc/V)	51.29	48.71	51.44	48.85	51.59	49.00	51.75	49.14	51.90	49.28
Short-Circuit Current(Isc/A)	13.86	11.19	13.92	11.24	13.98	11.29	14.04	11.34	14.10	11.391
Module Efficiency(%)	21.7		22.1		22.3		22.5		22.6	

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5;

NMOT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s; Tolerance of Pmax is within +/- 3%;

## Temperature Characteristics

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

## Packing Configuration



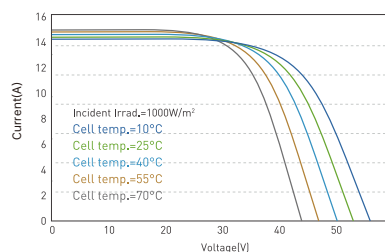
Notice: All data and specifications are preliminary and subject to change without notice.

Contact Us for More Information

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## Graphs

I-V Curve at different Temperature (585W)



I-V/P-V Curve at different Irradiation (585W)

