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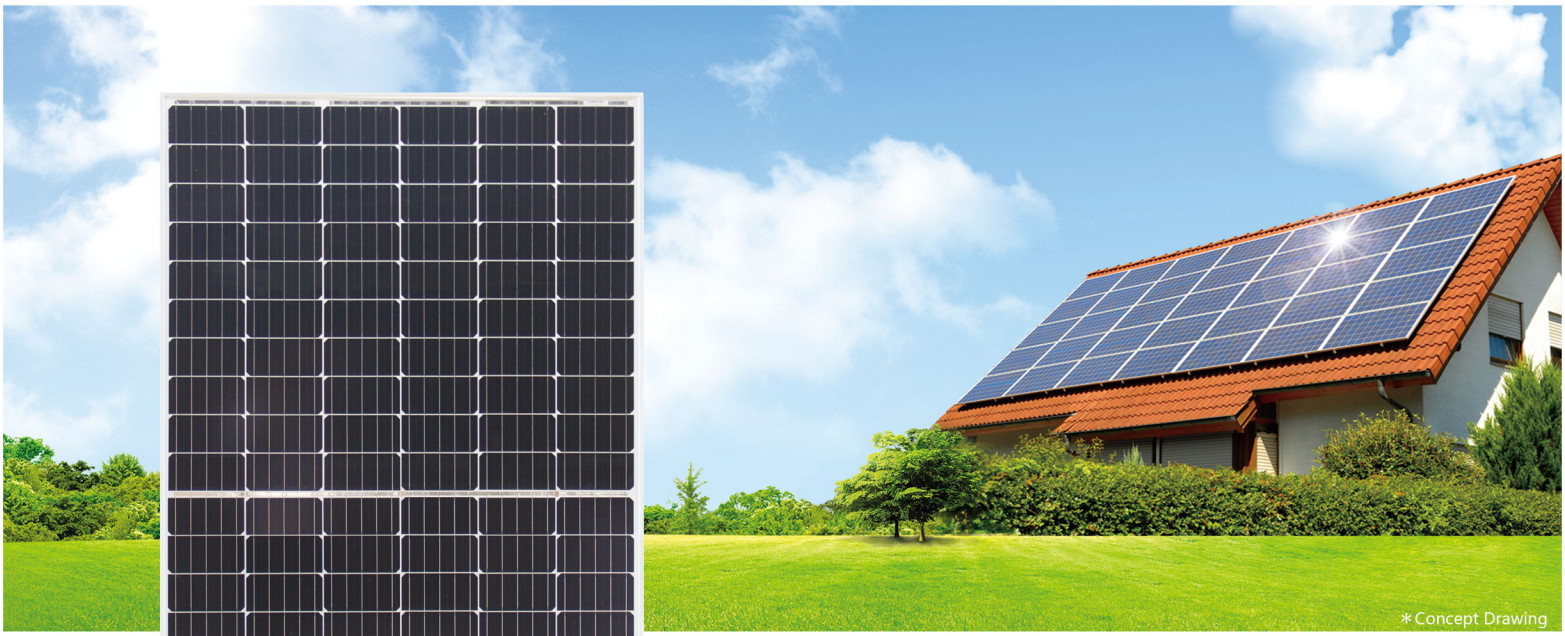


Half-cell Monocrystal Solar Cell Modules

HTM290/295/300/305/310/315/320MH-60

Reliable Quality

0~+3% positive tolerance output warranty

EL full inspection for twice effectively eliminates defects of products

Optimize module current profile, improve system-side power generation

Comprehensive Product and System Certification

- ISO 9001:2015 Quality Management Systems
- ISO 14001:2015 Environmental Management Systems
- OHSAS 18001:2007 Occupational Health and Safety Management Systems

Module Characteristics

5 Busbar Half-Cells

Innovative half-cutting cell technology, lower internal current, lower internal resistance loss

High Output Power

Output power is higher than the same type of conventional monocrystal module

Anti-PID Characteristics

Ensure large-scale production of half-cell monocrystal module pass PID test

Hot-Spot Effect

Low hot spot temperature, higher safety performance

Load Capacity

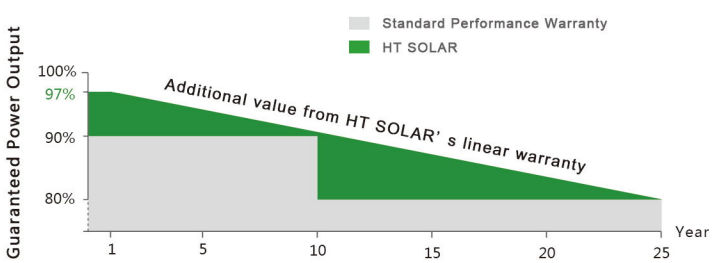
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal)

Harsh Environment Adaptation

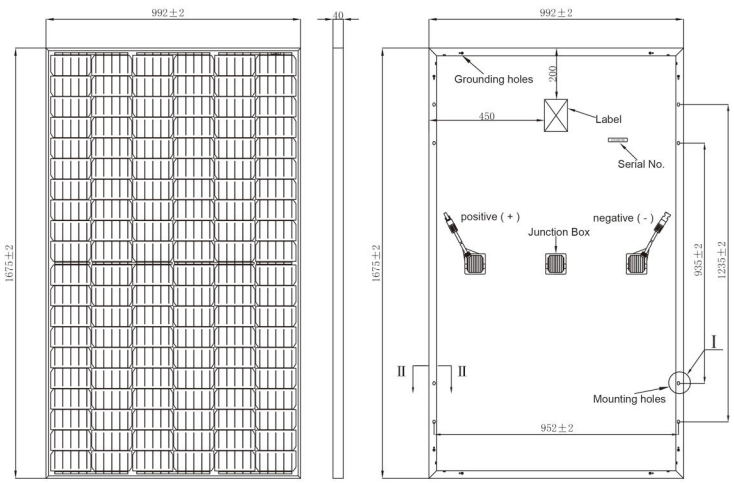
High salt mist and ammonia resistance certified by TUV NORD

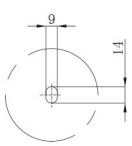
Industry-leading Linear Power Warranty

10-year product warranty•25-year linear power warranty

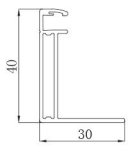


Module Dimensions(mm)





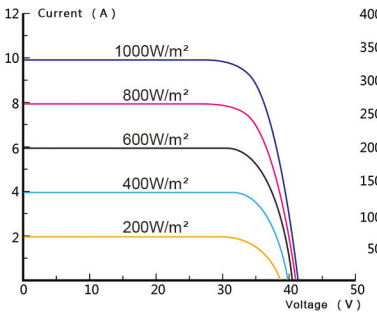
Ⅰ:Mounting holes



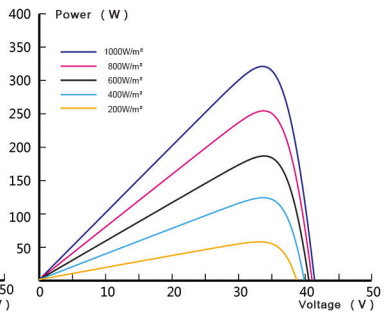
Ⅱ: Profile sectional drawing

I-V Curve

Current-Voltage Curve (320W)



Power-Voltage Curve (320W)



Structure Parameter

Cell Type	156.75x78.375mm Monocrystal
Cell Orientation	120 (6x20)
Module Dimensions	1675x992x40mm
Weight	19kg
Front Cover	3.2mm high transmittance, reinforced glass
Back Sheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP67
Cable	4.0mm² photovoltaic special cable
Connector	MC4 compatiple connector

Packaging Capacity

Each box capacity: 26 pcs
Container load capacity per 40 feet: 676 pcs

Electric Characteristics

Module Type	HTM290MH-60		HTM295MH-60		HTM300MH-60		HTM305MH-60		HTM310MH-60		HTM315MH-60		HTM320MH-60	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Output Power(Pm)	290W	214W	295W	218W	300W	222W	305W	226W	310W	229W	315W	232W	320W	235W
Maximum Power Voltage(Vmp)	32.33V	29.89V	32.64V	30.20V	32.94V	30.50V	33.23V	30.80V	33.52V	30.95V	33.80V	31.10V	34.08V	31.26V
Maximum Power Current(Imp)	8.97A	7.16A	9.04A	7.22A	9.11A	7.28A	9.18A	7.34A	9.25A	7.40A	9.32A	7.46A	9.39A	7.52A
Open-circuit Voltage(Voc)	39.14V	36.44V	39.47V	36.88V	39.83V	37.20V	40.14V	37.61V	40.62V	37.84V	40.99V	37.91V	41.39V	38.07V
Short-circuit Current(Isc)	9.54A	7.63A	9.61A	7.70A	9.67A	7.77A	9.73A	7.84A	9.79A	7.91A	9.85A	7.98A	9.91A	8.05A
Module Conversion Efficiency(STC)	17.45%		17.75%		18.05%		18.36%		18.66%		18.96%		19.26%	
Maximum System Voltage	1000/1500V													
Operating Temperature	-40℃~+85℃													
Temperature Coefficient(Pm)	-0.393%℃													
Temperature Coefficient(Voc)	-0.31%℃													
Temperature Coefficient(Isc)	0.041%℃													
Cell Rated Operating Temperature(NOCT)	45±2℃													

STC : Light intensity1000W/m² Module temperature : 25℃ Air quality : AM1.5

NOCT : Light intensity800W/m² Environment temperature : 20℃ Air quality : AM1.5 Wind speed : 1m/s

HT SOLAR

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