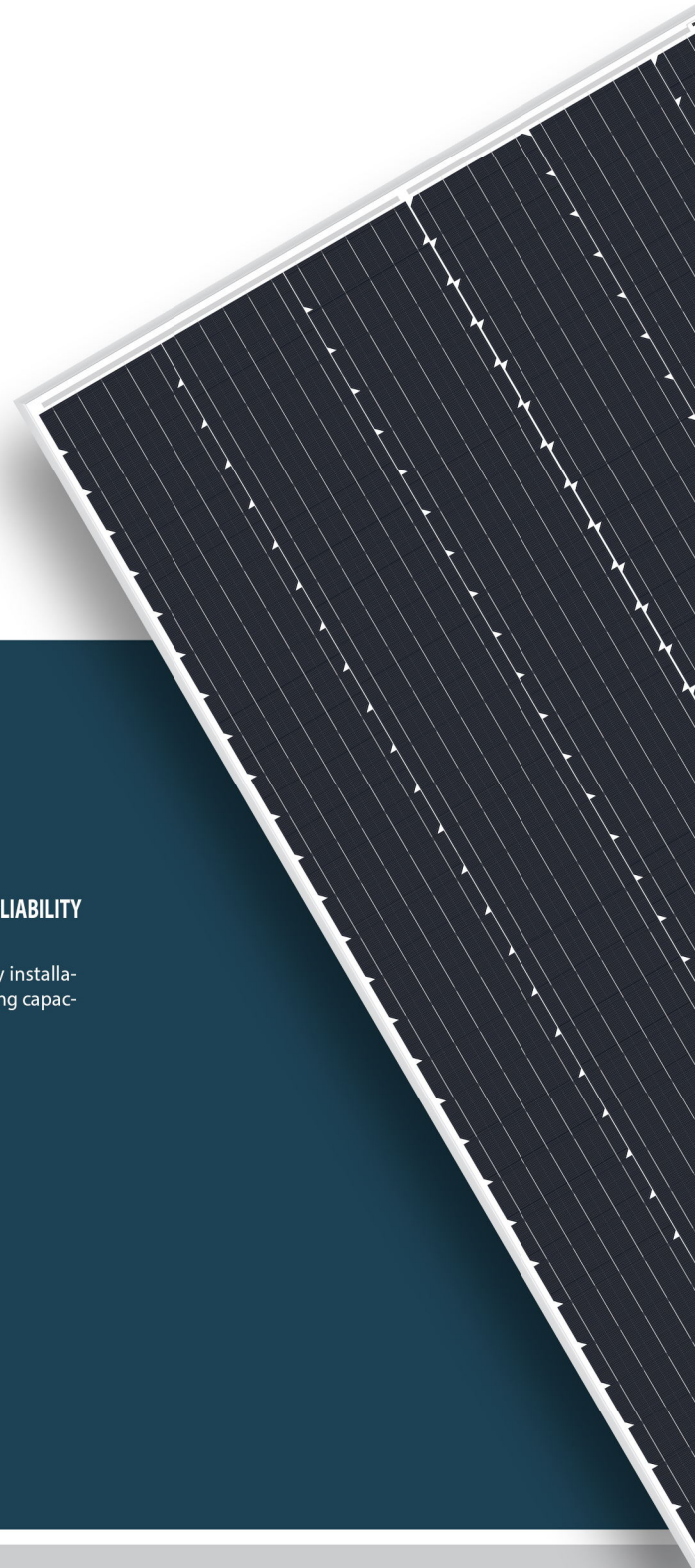




## TARZAN

# HTM-TSA-315M1~320M1 HTM-TSA-330M1~345M1

Ultra-high efficient plate-interconnection monocrystalline PV module



### ULTRA-HIGH POWER OUTPUT

Maximum power output can be increased by 15% compared with the standard modules when solar cells with the same efficiency are used



### HOT-SPOT IMMUNITY

Excellent hot-spot immunity, can effectively avoid the power loss caused by shadow coverage, significantly extends life span



### DURABILITY AND RELIABILITY ENHANCEMENTS

Microcrack free, easy installation, power generating capacity is more secured



### LOW LCOE

Savings in BOS and labour cost

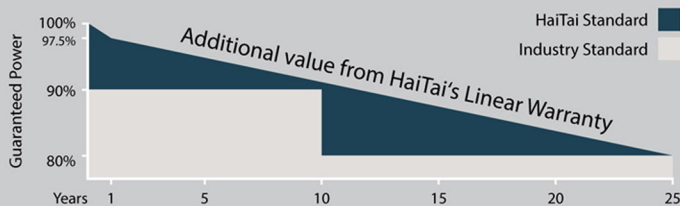


### SELF-CLEANING COATING

Advanced self-cleaning coating, dramatically reduces the maintenance cost and increases the power generating capacity at the same time

## LINEAR PERFORMANCE WARRANTY

12 years Product Warranty / 25 years Linear Power Warranty



## Mechanical Data

Module Dimension	1762x983x35mm
Weight	19.5kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP67
Cable	4.0mm <sup>2</sup> photovoltaic special cable
Connector	MC4 compatible connector

## HTM-TSA-315M1~320M1 HTM-TSA-330M1~345M1

Ultra-high efficient plate-interconnection  
monocrystalline PV module

## Electrical Data (STC)

Maximum Power (Pmax/W)	315	320	330	335	340	345
Voltage at Maximum Power (Vmp/V)	36.09	36.29	36.68	36.86	37.05	37.23
Current at Maximum Power (Imp/A)	8.73	8.82	9.00	9.09	9.18	9.27
Open Circuit Voltage (Voc/V)	43.06	43.30	43.72	43.98	44.23	44.45
Short Circuit Current (Isc/A)	9.18	9.27	9.45	9.54	9.63	9.72
Module Efficiency (%)	18.19	18.48	19.05	19.34	19.63	19.92

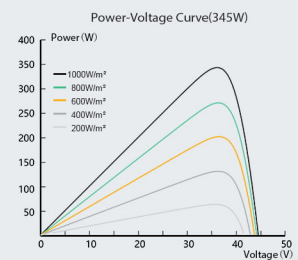
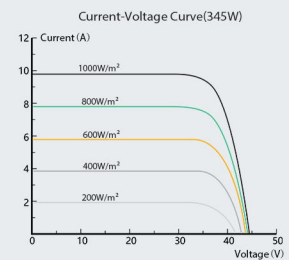
## Electrical Data (NMOT)

Maximum Power (Pmax/W)	235	238	245	249	252	256
Voltage at Maximum Power (Vmp/V)	32.87	32.86	32.92	32.95	32.99	33.02
Current at Maximum Power (Imp/A)	7.15	7.25	7.45	7.56	7.66	7.75
Open Circuit Voltage (Voc/V)	40.02	40.11	40.19	40.23	40.27	40.31
Short Circuit Current (Isc/A)	7.60	7.68	7.83	7.91	7.99	8.07

STC(Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5

NMOT(Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## I-V Curve



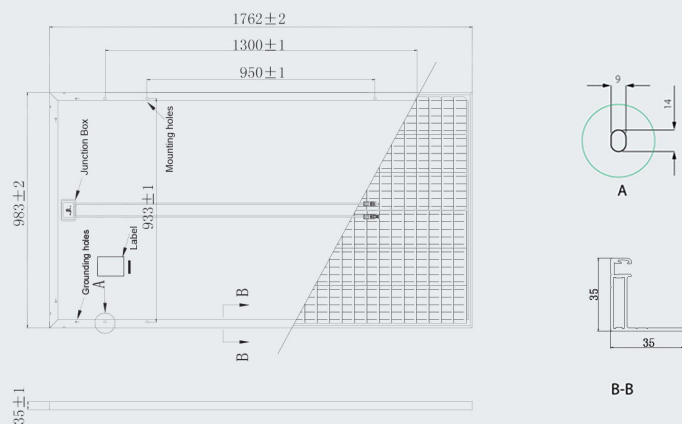
## Temperature Coefficients

Temperature Coefficient (Pm)	-0.244%/°C
Temperature Coefficient (Voc)	-0.309%/°C
Temperature Coefficient (Isc)	0.047%/°C

## Operating Parameters

Maximum System Voltage	1000/1500V
Operating Temperature	-40°C~+85°C
NMOT(Nominal Module Operating Temperature)	41±3°C

## Module Dimensions (mm)



## Packaging

Modules per Pallet: 31+31+4 pcs

Modules per 40' HQ Container: 12 pallets, 792 pcs



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