

PRODUCT FEATURES



High Efficiency

Power can be generated on both sides to support additional output gains of up to 25%.

The multi-busbar half-cut technology can boost energy density to deliver higher output.



High Reliability

Certified in TUV salt spray, ammonia corrosion, 2400Pa wind load and 5400Pa snow load testing. Highly reliable.



High ROI

Effectively reducing BOS costs to achieve lower LCOE and enhanced project profitability.



Low Degradation

First-year degradation is less than 2.0%, with linear degradation of 0.45% per year for 30 years.



Low Risk of Hot Spot

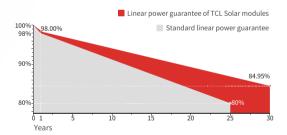
The next-generation cell technology and optimized circuit design adopted can support improved temperature coefficient and better hotspot resistance.



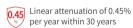
Low Risk of Micro-Crack

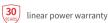
The multi-busbar technology contributes to more effective prevention of Micro crack and broken busbars.

LINEAR PERFORMANCE WARRANTY









CERTIFICATES

·IEC 61215, IEC 61730

·ISO 9001: 2015 Quality Management System

·ISO 14001: 2015 Environment Management System

·ISO 45001: 2018 Occupational health and safety management systems









Electrical Data (STC)

Maximum Power (Pmax/W)	535	540	545	550	555
Open Circuit Voltage (Voc/V)	49.38	49.53	49.68	49.83	49.98
Short Circuit Current (Isc/A)	13.54	13.63	13.71	13.80	13.88
Voltage at Maximum Power (Vmp/V)	40.88	41.03	41.18	41.31	41.43
Current at Maximum Power (Imp/A)	13.10	13.17	13.24	13.32	13.40
Module Efficiency (%)	20.71	20.90	21.10	21.29	21.48
Operating Temperature	-40° C~+85° C				
Maximum System Voltage	1000/1500V DC				
STC (Standard Testing Conditions): lrradiance 1000W/m², Cell Temperature 25°C , AM1.5					

Electrical Data (NMOT)

Maximum Power (Pmax/W)	400	404	408	412	416
Open Circuit Voltage (Voc/V)	45.41	45.56	45.71	45.85	46.00
Short Circuit Current (Isc/A)	11.29	11.37	11.44	11.53	11.60
Voltage at Maximum Power (Vmp/V)	37.64	37.79	37.94	38.05	38.17
Current at Maximum Power (Imp/A)	10.64	10.70	10.77	10.83	10.90
NMOT (Nominal Moudule Operating Temperature):	rradiance 800	W/m² Amhient Te	emperature 20	C AM15 Wind	Speed 1m/s

Bifacial Power Generation Parameters (Backside Gains)

5%	Maximum Power (Pmax/W)	562	567	572	578	583
3%0	Module Efficiency (%)	21.75	21.95	22.15	22.36	22.56
15%	Maximum Power (Pmax/W)	615	621	627	633	638
13%		23.82	24.04	24.26	24.48	24.71
25%	Maximum Power (Pmax/W)	669	675	681	688	694
25%	Module Efficiency (%) 25.89	25.89	26.13	26.37	26.61	26.86

Mechanical Data

Cell Type	182×91mm Mono
Cell Orientation	144(6×24)
Module Dimensions	2278×1134×30mm
Weight	32.0kg
Glass	2.0mm high transmittance, reinforced glass
Backsheet	2.0mm part of the structure is grid-like white ceramic glass
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP68
Cable	4.0 mm² positive pole: 200 mm negative pole: 250 mm wire length can be customized
Connector	MC4 EVO2 & Compatible

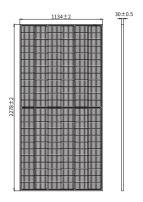
Temperature Coefficients

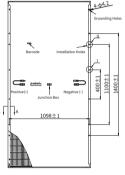
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Temperature Coefficient (Pm)	-0.340%/°C
Temperature Coefficient (Voc)	-0.270%/°C
Temperature Coefficient (Isc)	0.048%/°C
NMOT (Nominal Moudule Operating Temperature)	41±3°C

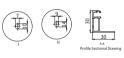
Packaging

Transportation methods	Number of modules per cabinet	Number of modules per pallet
40HQ container	720 pcs	36 pcs

Module Dimensions (mm)







I-V Curve

Current-Voltage Curve(555W)

