THAIMAXWELL SOLAR



BIPRO
144-cell TMS-ED7G72M

560 - 585W Bifacial Dual Glass
MBB Half-Cut Mono N-type

KEY FEATURES

MBB Half-Cut Cell Technology
New circuit design, lower internal current, lower Rs loss
N-type cell technology, attenuation <1% (1st year) / ≤0.4% (Linear)

Industry Leading High Yield
Bifacial PERC cell technology,
5%-25% more yield depends on different conditions

Excellent Anti-PID performance
2 times of industry standard Anti-PID test

Wider Application
No water-permeability and high wear-resistance,
can be widely used in high-humid, windy and dusty area

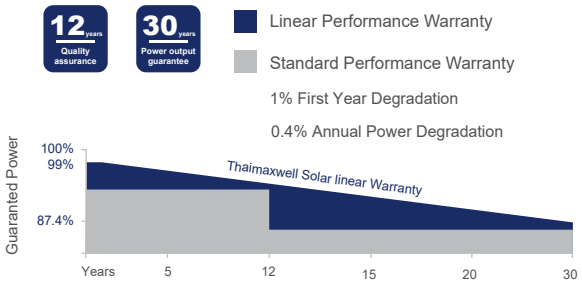
IP68 junction box
High waterproof level

SYSTEM & PRODUCT CERTIFICATES

// ISO 9001: 2015 Quality Management System

// ISO 14001: 2015 Environment Management System

PERFORMANCE WARRANTY



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ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	560	427	565	431	570	435	575	438	580	442	585	446
Operating Voltage (Vmpp/V)	41.95	40.16	42.14	40.34	42.29	40.49	42.44	40.63	42.59	40.77	42.74	40.92
Operating Current (Impp/A)	13.35	10.64	13.41	10.69	13.48	10.75	13.55	10.80	13.62	10.86	13.69	10.91
Open-Circuit Voltage (Voc/V)	50.67	48.51	50.87	48.70	51.07	48.89	51.27	49.08	51.47	49.27	51.67	49.47
Short-Circuit Current (Isc/A)	14.13	11.37	14.19	11.41	14.25	11.46	14.31	11.51	14.37	11.56	14.43	11.61
Module Efficiency (%)	21.7		21.9		22.1		22.3		22.5		22.6	

REAR SIDE POWER GAIN(REFERENCE TO 585W FRONT)

Pmax gain	5%	15%	25%
Pmax/W	614	673	731
Vmpp/V	42.74	42.84	42.84
Impp/A	14.37	15.70	17.07
Voc/V	51.67	51.77	51.77
Isc/A	15.15	16.56	18.00

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25°C, Power output tolerance: 0~+5W,Test uncertainty for Pmax : ±3%
NMOT: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20°C, Wind speed 1m/s

MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline N-type 182*182 mm
No. of Cells	144 (6*24)
Module Dimensions	2278*1134*35mm (89.69*44.65*1.38inches)
Weight	32.9kg (72.53lbs.)
Front Glass	2.0 mm AR Coating Semi-tempered Glass
Back Glass	2.0 mm Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm² (IEC), 12AWG(UL) 1400mm (55inches)
Connectors	T01/LJQ-3-CSY/MC4/MC4-EVO2

APPLICATION CONDITIONS

Maximun System Voltage	1500V/DC
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	30A
Mechanical Load	Front side 5400Pa,Back side 2400Pa
Refer. Bifaciality Factor	80%±10%

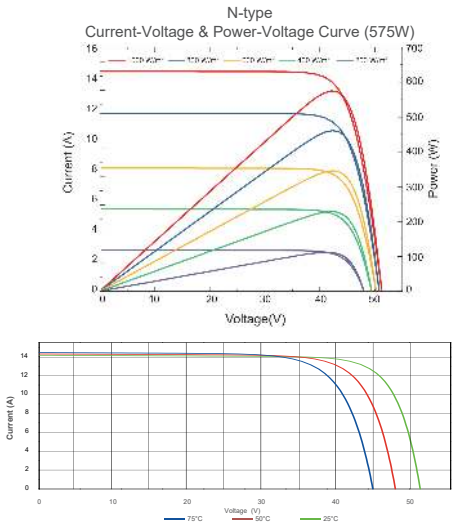
OPERATING CONDITIONS

Temperature Coefficient of Pmax	-0.31%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.05%/°C
NMOT (Nominal Module Operating Temperature)	42±2°C

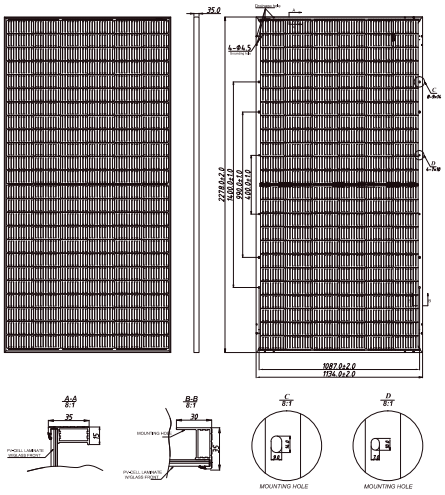
PACKING CONFIGURATION

Pieces Per Pallet	31	31(USA)
Pieces Per Container(40'HQ)	620	620

I-V CURVE



TECHNICAL DRAWINGS



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