



XN36TF-P1 PHOTOVOLTAIC MODULES

XN36 SERIES HALF-CUT PV MODULES

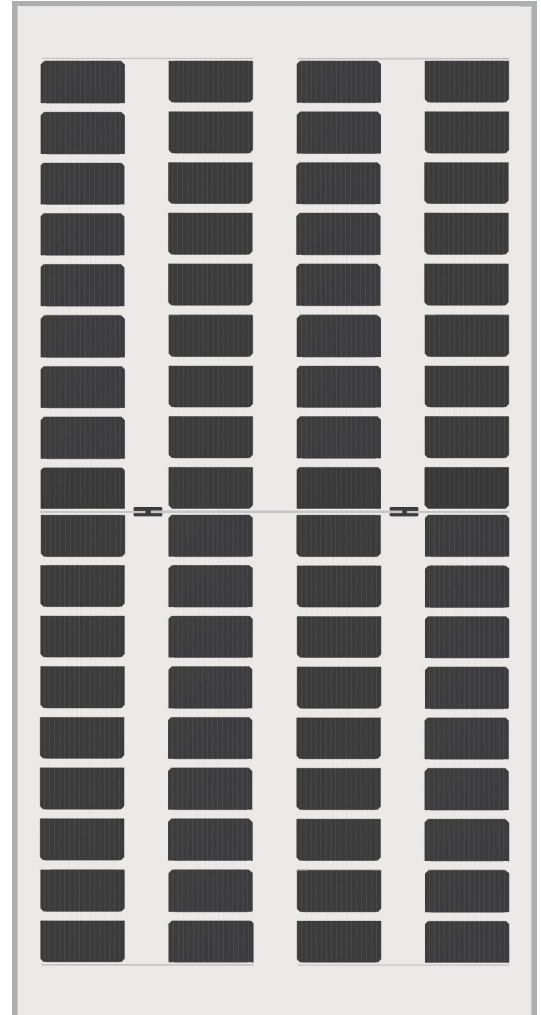
PEAK POWER: 290-300 Wp

FEATURES INCLUDE:

- 72 half-cut N-Topcon cells comprised by double layers of glasses.
- Positive power tolerance of 0~+3% improves system performance.
- Industry-leading module efficiency: maximum efficiency of 11.61%.
- Tested up to 5400Pa for maximum load resistance.
- Verified resistance against PID effects.
- Progressive Power Warranty guarantees 87.4% of rated power at 30 years.
- Manufactured globally with world-class quality standards

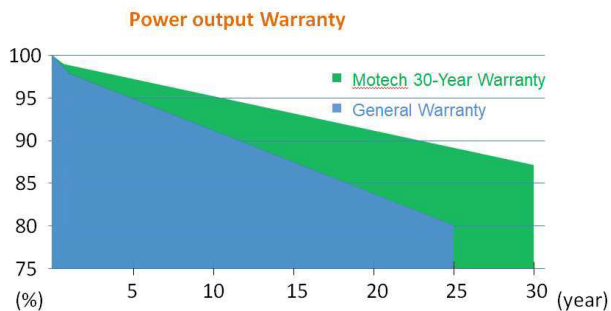
QUALITY, RELIABILITY, AND KWH YIELD

MOTECH modules are powered by industry acknowledged high performance, reliable silicon cells. 25 years of experience in solar module engineering and design, along with rigorous durability and performance tests, ensure reliable lifetime performance and maximum kWh yield.



30-YEAR PROGRESSIVE WARRANTY*

- 30-year progressive power warranty
- 12-year warranty on materials and workmanship



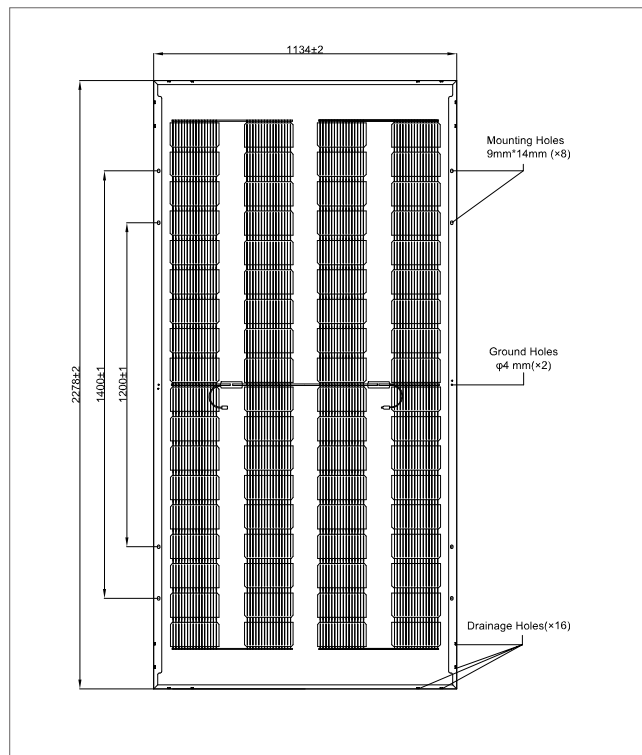
CERTIFICATIONS & STANDARDS*





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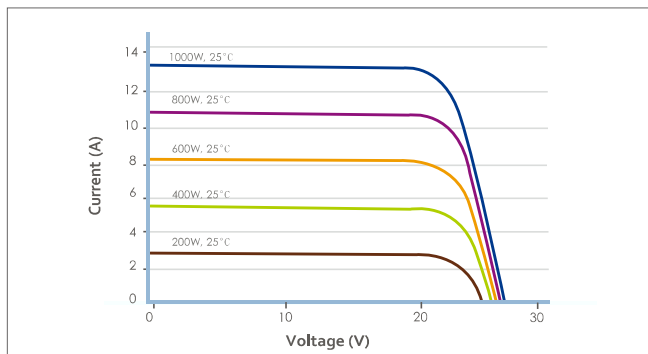
PHYSICAL CHARACTERISTICS



PHYSICAL DESIGN PROPERTIES

Dimension	2278×1134×30mm
Weight	31.6kg±5%
Front Glass	2.0 mm Semi-tempered Coated PV Glass
Back Glass	2.0 mm Glazed Glass
Junction Box	Protection class IP68
Output Cables	Φ4.0mm ² , 500mm/500mm, or customized length
Connectors	MC4 Compatible
Light transmittance	53.9%
Packing	36 pcs/pallet, 720 pcs/container(40'HQ)

IV CURVE



ELECTRICAL PERFORMANCE

XN36TF-P1-290

XN36TF-P1-295

XN36TF-P1-300

Electrical Performance @ STC (Power Measurement Uncertainty±3%)				
Maximum Power Pmax[Wp]		290	295	300
Max. Power Voltage	V _{mpp} (V)	22.57	22.82	23.05
Max. Power Current	I _{mpp} (A)	12.85	12.93	13.02
Open Circuit Voltage	V _{oc} (V)	26.11	26.33	26.56
Short Circuit Current	I _{sc} (A)	13.52	13.59	13.68
Module Efficiency (%)		11.23%	11.42%	11.61%

Power Gain (Electrical Performance @ STC) (Power Measurement Uncertainty±3%)				
5%	Pmax[Wp]	304	309	315
	Module Efficiency (%)	11.77%	11.96%	12.19%
15%	Pmax[Wp]	333	339	345
	Module Efficiency (%)	12.89%	13.12%	13.36%
25%	Pmax[Wp]	362	368	375
	Module Efficiency (%)	14.01%	14.25%	14.52%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.045	Maximum Series Fuse Rating	30A
Voc Temperature Coefficient	β (%/°C)	-0.25	Max. System Voltage (IEC)	1500V
Pmax Temperature Coefficient	γ (%/°C)	-0.29	Nominal Operating CellTemp.(NOCT)	45°C ± 2°C

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads. NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice.

Motech reserves the rights of final interpretation and revision on this datasheet.

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