



XN24TF-P4 PHOTOVOLTAIC MODULES

XN24 SERIES HALF-CUT PV MODULES

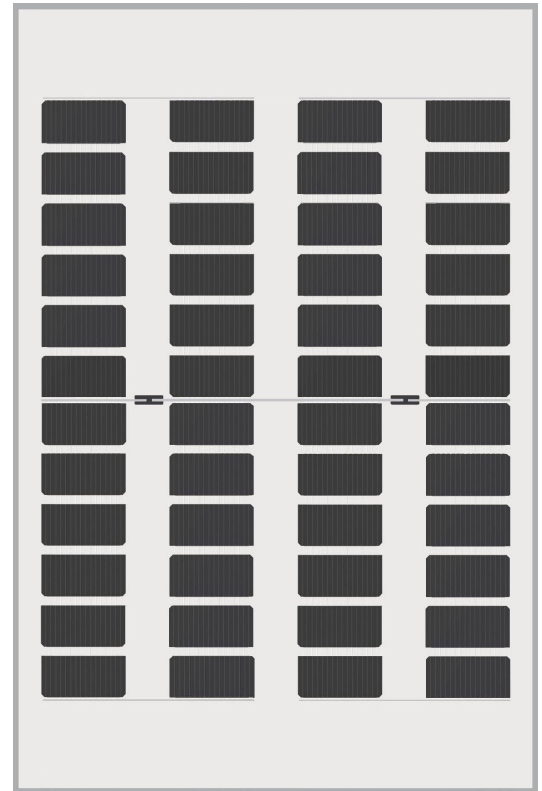
PEAK POWER: 185-195 Wp

FEATURES INCLUDE:

- 48 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 9.99%.
- 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

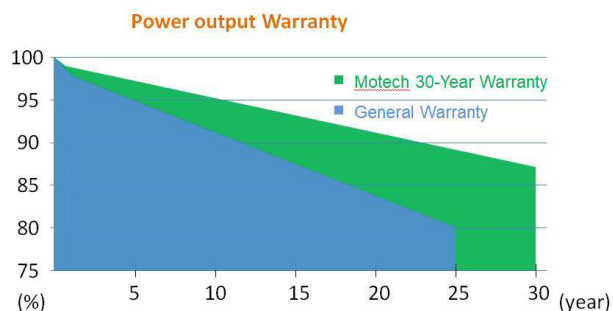
QUALITY, RELIABILITY, AND KWH YIELD

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.



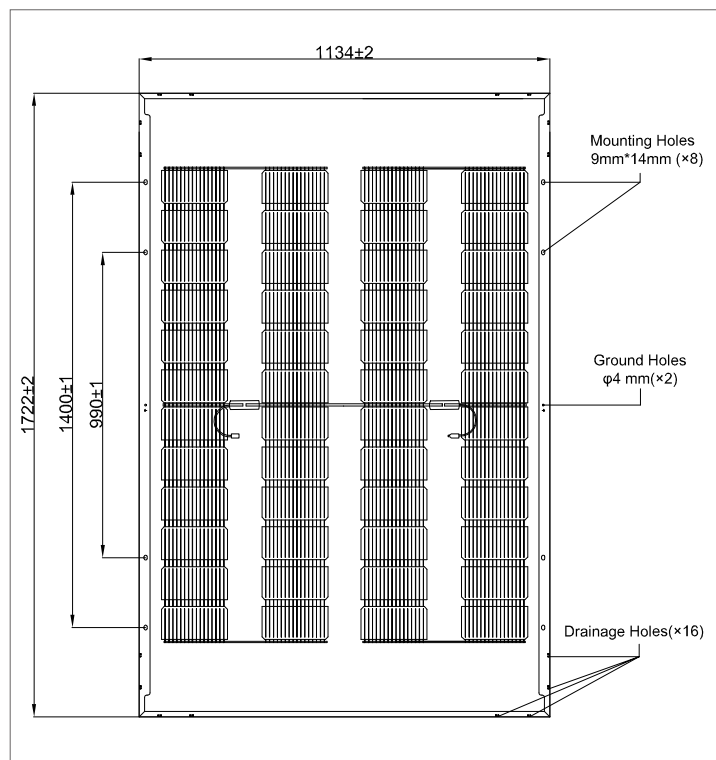
30-YEAR PROGRESSIVE WARRANTY*

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

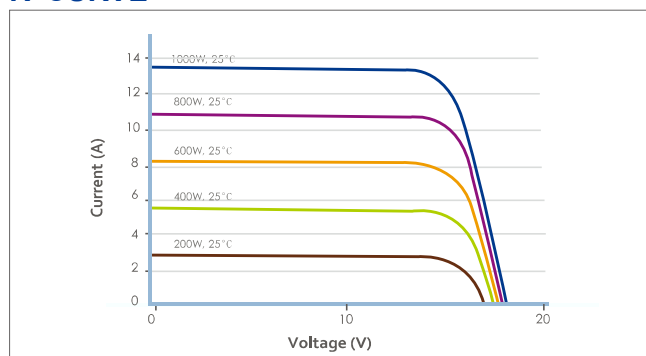


CERTIFICATIONS & STANDARDS*



**PHYSICAL CHARACTERISTICS****PHYSICAL DESIGN PROPERTIES**

Dimension	1722×1134×30mm
Weight	24.5kg±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	59.4%
Packing	36 pcs/pallet, 936 pcs/container(40'HQ)

IV CURVE**ELECTRICAL PERFORMANCE****XN24TF-P4-185****XN24TF-P4-190****XN24TF-P4-195**

Electrical Performance @ STC （Power Measurement Uncertainty±3%）				
Maximum Power Pmax[Wp]		185	190	195
Max. Power Voltage	Vmpp(V)	14.61	14.88	15.13
Max. Power Current	Impp(A)	12.67	12.77	12.89
Open Circuit Voltage	Voc(V)	17.0	17.2	17.5
Short Circuit Current	Isc(A)	13.38	13.44	13.56
Module Efficiency (%)		9.47%	9.73%	9.99%

Power Gain (Electrical Performance @ STC) 「Power Measurement Uncertainty±3%」				
5%	Pmax[Wp]	194	199	204
	Module Efficiency (%)	9.94%	10.19%	10.45%
15%	Pmax[Wp]	212	218	224
	Module Efficiency (%)	10.86%	11.16%	11.47%
25%	Pmax[Wp]	231	237	243
	Module Efficiency (%)	11.83%	12.14%	12.44%

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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