



**XN36TF-P3** PHOTOVOLTAIC MODULES

# XN36SERIES HALF-CUT PV MODULES

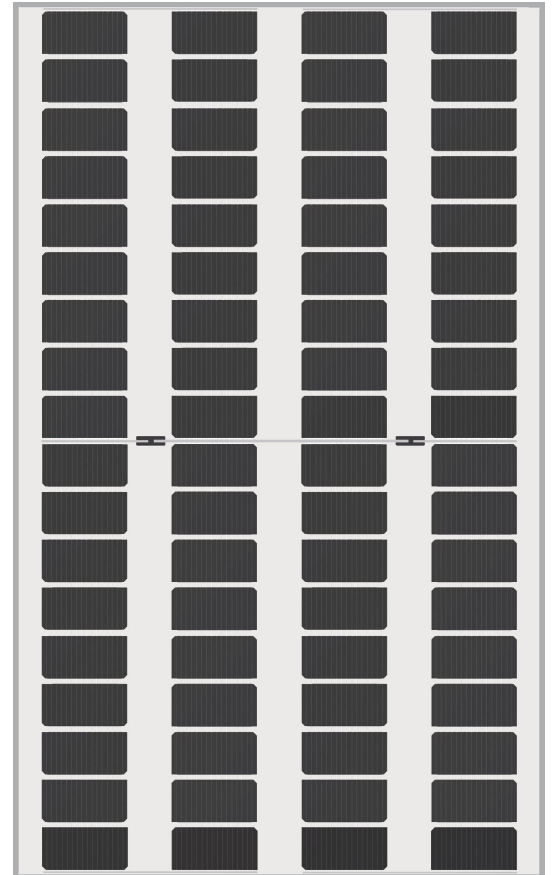
PEAK POWER: 290-300 Wp

## 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 13.88%.
- 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

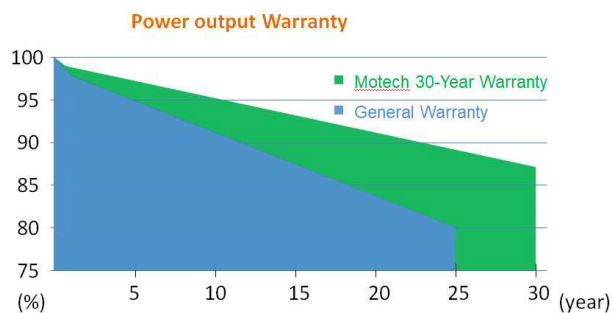
## QUALITY, RELIABILITY, AND KWH YIELD

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.



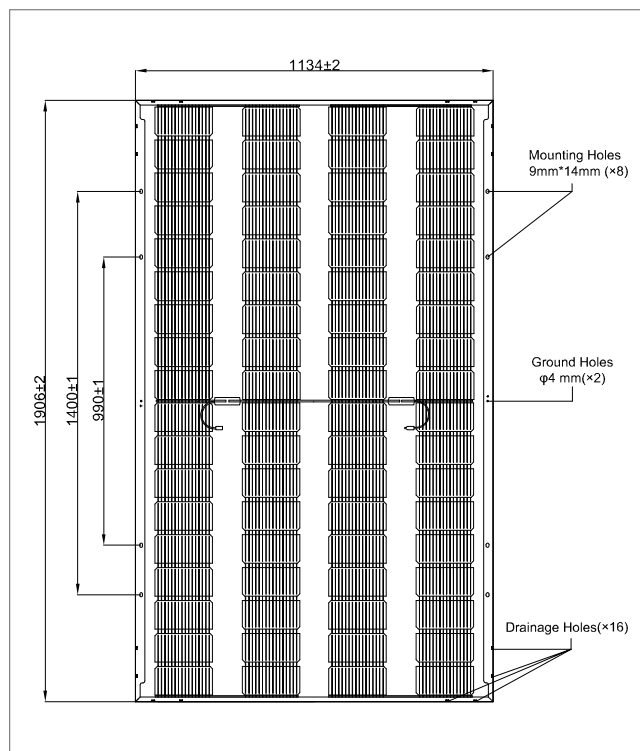
## 30-YEAR PROGRESSIVE WARRANTY\*

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

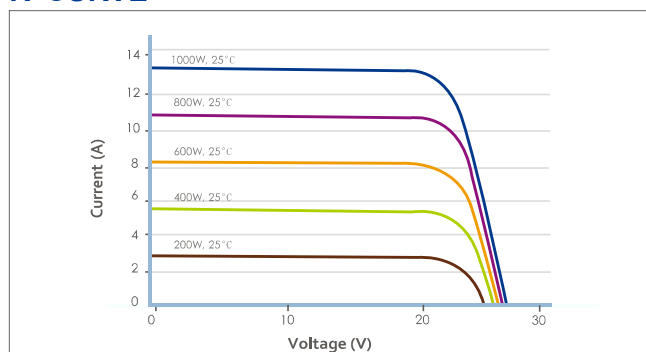


## CERTIFICATIONS & STANDARDS\*



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

|                     |   |
|---------------------|---|
| Dimension           | 1906×1134×30mm  |
| Weight              | 27.1kg±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 <sup>2</sup> , 500mm/500mm, or customized length |
| Connectors          | MC4 Compatible  |
| Light transmittance | 45.0%   |
| Packing             | 36 pcs/pallet, 864 pcs/container(40'HQ)                 |

**IV CURVE****ELECTRICAL PERFORMANCE****XN36TF-P3-290****XN36TF-P3-295****XN36TF-P3-300**

| Electrical Performance @ STC (Power Measurement Uncertainty±3%) |                      |        |        |        |
|---|----------------------|--------|--------|--------|
| Maximum Power Pmax[Wp]  |                      | 290    | 295    | 300    |
| Max. Power Voltage  | V <sub>mpp</sub> (V) | 22.57  | 22.82  | 23.05  |
| Max. Power Current  | I <sub>mpp</sub> (A) | 12.85  | 12.93  | 13.02  |
| Open Circuit Voltage  | V <sub>oc</sub> (V)  | 26.11  | 26.33  | 26.56  |
| Short Circuit Current   | I <sub>sc</sub> (A)  | 13.52  | 13.59  | 13.68  |
| Module Efficiency (%)   |                      | 13.42% | 13.65% | 13.88% |

| Power GainElectrical Performance @ STC (Power Measurement Uncertainty±3%) |                       |        |        |        |
|---|-----------------------|--------|--------|--------|
| 5%  | Pmax[Wp]              | 304    | 309    | 315    |
|   | Module Efficiency (%) | 14.06% | 14.30% | 14.57% |
| 15%   | Pmax[Wp]              | 333    | 339    | 345    |
|   | Module Efficiency (%) | 15.41% | 15.68% | 15.96% |
| 25%   | Pmax[Wp]              | 362    | 368    | 375    |
|   | Module Efficiency (%) | 16.75% | 17.03% | 17.35% |

**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/m<sup>2</sup>, AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads. NOCT is measured at 800 W/m<sup>2</sup>, 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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