

# XN28SERIES HALF-CUT PV MODULES

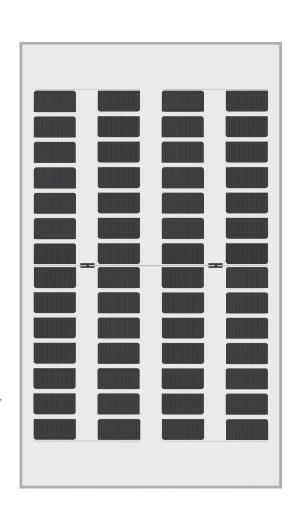
PEAK POWER: 220-230 Wp

#### **FEATURES INCLUDE:**

- 56 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 10.64%.
- 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

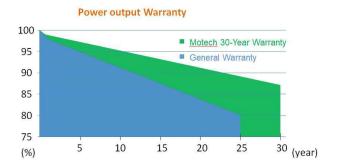
## **QUALITY, RELIABILITY, AND KWH YIELD**

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\***

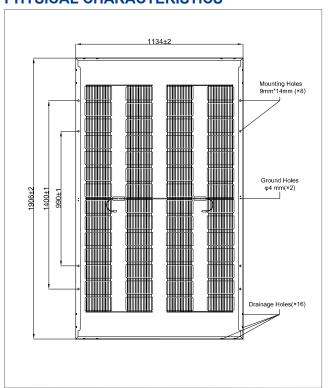






# XN28TF-P3 PHOTOVOLTAIC MODULES

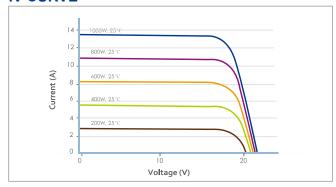
# **PHYSICAL CHARACTERISTICS**



## **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	Φ4.0mm²,500mm/500mm, or customized length	
Connectors	nectors MC4 Compatible	
Light transmittance	e 57.2%	
Packing	ing 36 pcs/pallet, 864 pcs/container(40'HQ)	

### **IV CURVE**



ELECTRICAL PERFORMANCE	XN28TF-P3-220	XN28TF-P3-225	XN28TF-P3-230
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Electrical Performance @ STC (Power Measurement Uncertainty±3%)				
Max. Power Voltage Vmpp(V)	17.25	17.54	17.76	
Max. Power Current Impp(A)	12.76	12.83	12.95	
Open Circuit Voltage Voc(V)	20.00	20.27	20.53	
Short Circuit Current Isc(A)	13.43	13.51	13.61	
Module Efficiency (%)	10.18%	10.41%	10.64%	

Power Gain (Electrical Performance @ STC) 「Power Measurement Uncertainty±3%」					
5%	Pmax[Wp]	231	236	241	
	Module Efficiency (%)	10.69%	10.92%	11.15%	
15%	Pmax[Wp]	253	258	264	
	Module Efficiency (%)	11.71%	11.94%	12.21%	
25%	Pmax[Wp]	275	281	287	
	Module Efficiency (%)	12.72%	13.00%	13.28%	

### **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.

 $\label{thm:model} \mbox{Motech reserves the rights of final interpretation and revision on this datasheet.} \\$ 

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