

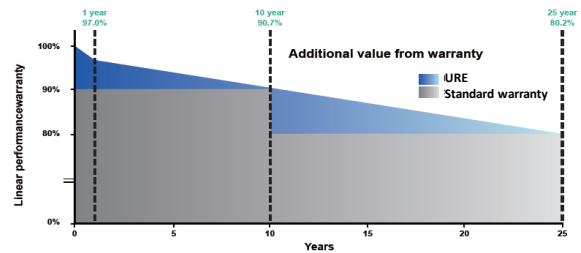


F7M_H7A

290W – 310W

Half-cut cell Mono-Crystalline PV Module
(full black appearance)

Reliability with Warranty



Output warranty
25
Years

Product Guarantee
10
Years

Key Features



Positive power tolerance
+0 ~ +4.99 watt



100% EL inline inspection
Better module reliability



Withstand heavy loading
front load 5400 Pa & rear load 2400 Pa

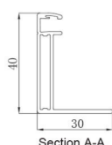
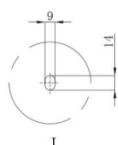
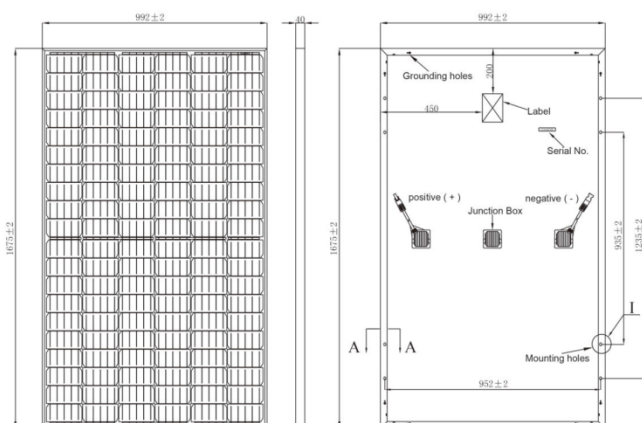


Ammonia resistance



Half-cut cell Mono-Crystalline PV Module

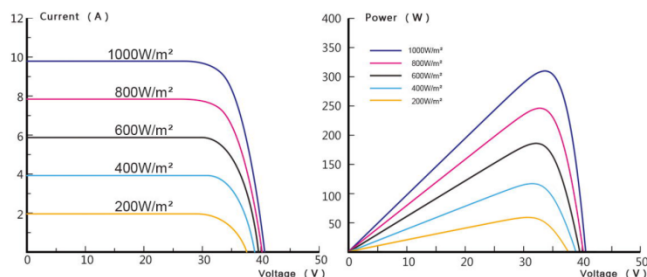
Module Dimensions (mm)



I-V Curve

Current-Voltage Curve (310W)

Power-Voltage Curve (310W)



Mechanical Data

Cell Type	156.75x78.375mm Monocrystal
Cell Orientation	120 (6x20)
Module Dimensions	1675x992x40mm
Weight	19kg
Front Cover	3.2mm high transmittance, reinforced glass
Back Sheet	Anti-aging film
Frame Material	Anodized aluminum alloy
Junction Box	Protection class IP67
Cable	4.0mm² photovoltaic special cable
Connector	MC4 compatible connector

Packaging Capacity

Each box capacity: 26 pcs

Container load capacity per 40 feet: 676 pcs

Electric Data

Module Type	F7M290H7A		F7M295H7A		F7M300H7A		F7M305H7A		F7M310H7A	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Output Power(Pm)	290W	214W	295W	218W	300W	222W	305W	226W	310W	229W
Maximum Power Voltage(Vmp)	32.33V	29.89V	32.64V	30.20V	32.94V	30.50V	33.23V	30.80V	33.52V	30.95V
Maximum Power Current(Imp)	8.97A	7.16A	9.04A	7.22A	9.11A	7.28A	9.18A	7.34A	9.25A	7.40A
Open-circuit Voltage(Voc)	39.14V	36.44V	39.47V	36.88V	39.83V	37.20V	40.14V	37.61V	40.62V	37.84V
Short-circuit Current(Isc)	9.54A	7.63A	9.61A	7.70A	9.67A	7.77A	9.73A	7.84A	9.79A	7.91A
Module Conversion Efficiency(STC)	17.45%		17.75%		18.05%		18.36%		18.66%	
Maximum System Voltage	1000/1500V									
Operating Temperature	-40℃~+85℃									
Temperature Coefficient(Pm)	-0.393%/℃									
Temperature Coefficient(Voc)	-0.31%/℃									
Temperature Coefficient(Isc)	0.041%/℃									
Cell Rated Operating Temperature(NOCT)	45±2℃									

STC : ☀️ Light intensity 1000W/m² 🌡️ Environment temperature : 25°C 🌬️ Air quality : AM1.5

NOCT : ☀️ Light intensity 800W/m² 🌡️ Environment temperature : 20°C 🌬️ Air quality : AM1.5 🌀 Wind speed : 1m/s



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