

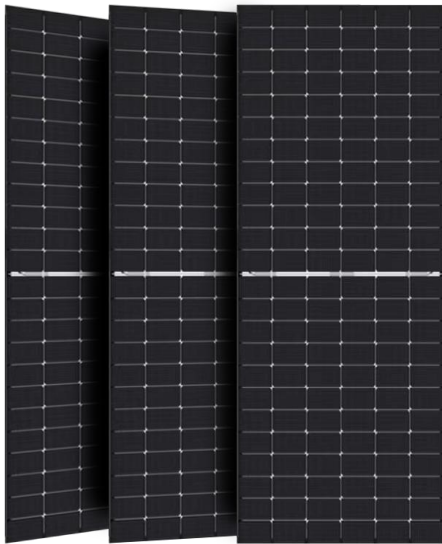
FE72-166M Transparent

High Efficiency Low LID Bifacial PERC with Half-cut Technology

NEW

BigSize: Cell 166*83 Monocrystalline

440W / 445W
450W / 455W / 460W



- **Module Efficiency:**
21.2%
- **NO. of Cells:**
144(6 x 24)
- **Weight:**
23.5kg
- **Dimensions:**
2094mmx1038mmx35mm



Jiangsu Xiehang New Energy Intelligent Equipment Co.Ltd
www.xiehangenergy.com

Factory: HT FELLOW ENERJI A.Ş.
Factory: CHEN GUNES ENERJISI SANAYI VE
TICARET LIMITED SIRKETI



Half cut cell technology can reduce the internal power loss and improve component overall power. Excellent heat dissipation avoids hot spot production. Low LID Bifacial PERC with Half-cut Technology



9BB The optimized number and width of main gate lines, Maximize the light receiving area of components and Reduce component power consumption

12Ys

Products Warranty



Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BOS costs

30Ys

Warranty on power output



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.

EL

Microcrack resistant highperformance transparent backsheets structure enhance reliability, triple EL tested of high quality control.



Entire module certified to with stand extreme wind (2400 Pa) and snow loads (5400Pa)

5W

Positive tolerance 0/+5W guaranteed

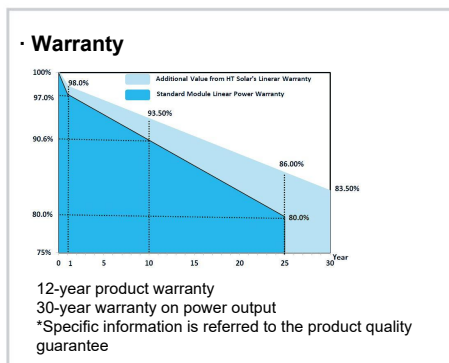
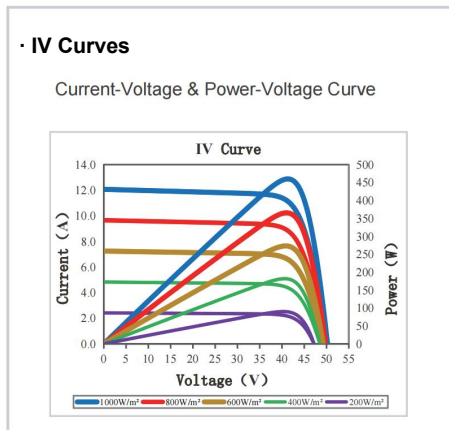
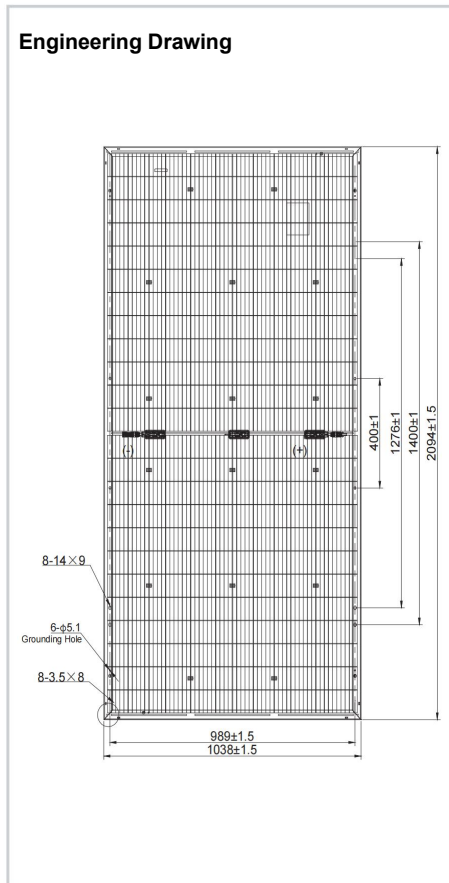
PID

PID Resistant

Comprehensive and first-rate certification system

IEC61215 : 2016. IEC61730 : 2016 Latest Standard and UL 61730 Latest Standard, ISO9001 ISO14001 and ISO45001, meeting the highest international standards Strict quality control





Electrical Characteristics (STC)

Module Type	FE72-166M				
Maximum Power(Pmax)	440W	445W	450W	455W	469W
Open Circuit Voltage(Voc)	49.8V	49.9V	50.0V	50.1V	50.2V
Short Circuit Current(Isc)	11.60A	11.72A	11.83A	11.96A	12.06A
Maximum Power Voltage(Vmp)	40.9V	41.0V	41.1V	41.2V	41.3V
Maximum Power Current(Imp)	10.77A	10.86A	10.96A	11.06A	11.15A
Module Efficiency(%)	20.2%	20.5%	20.7%	20.9%	21.2%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	20A				
Operating Temperature	-40°C TO +85°C				

*STC: AM 1.5, Irradiance 1000W/m², module temperature 25°C

Electrical Characteristics(NMOT)

Module Type	FE72-166M				
Maximum Power(Pmax)	326W	330W	334W	338W	342W
Open Circuit Voltage(Voc)	47.1V	47.3V	47.5V	47.7V	47.9V
Short Circuit Current(Isc)	9.35A	9.42A	9.49A	9.56A	9.63A
Maximum Power Voltage(Vmp)	38.7V	38.9V	39.1V	39.5V	39.5V
Maximum Power Current(Imp)	8.43A	8.49A	8.56A	8.62A	8.66A

*NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

BIFACIAL REAR SIDE POWER GAIN

Electrical characteristics with different rear side power gain for reference(reference to 380W front)

Module	FE72-166M		Bifaciality:70±5%		
Maximum Power	Pmax Gain	Voc/V	Isc/A	Vmp/V	Imp/A
501W	5%	50.10	13.15	41.10	12.15
523W	10%	50.10	13.75	41.10	12.70
546W	15%	50.10	14.35	41.10	13.26
569W	20%	50.10	14.95	41.10	13.80
592W	25%	50.10	15.55	41.10	14.41

*bifacial gain:the additional gain from the rear side compared to the power of the front side at the standard test condition.
It depends on mounting(structure,height,tilt angle etc.)and abledo of the ground.

Temperature Coefficient of Pmax	γ(Pm)	-	0.350%/°C
Temperature Coefficient of Voc	β(Voc)	-	0.275%/°C
Temperature Coefficient of Isc	α(Isc)	+	0.045%/°C
Solar Cells	Monocrystalline 166 x 83mm		
No.of Cells	144 (6×24)		
Dimensions	2094mm×1038mm×35mm		
Weight	23.5kg		
Front Glass	High transmission tempered glass		
Frame	Anodized aluminum alloy		
Junction Box	IP68		
Cable	4mm ² (IEC)Length: (+)400mm, (-)200mm/length can be customized		
Connectors	MC4/MC4 Compatible		
Packaging Configuration	31 pcs/box: 682pcs 40'HQ Container		

*The module recycling should be carried out by the professional institutions at the end of module life cycle
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