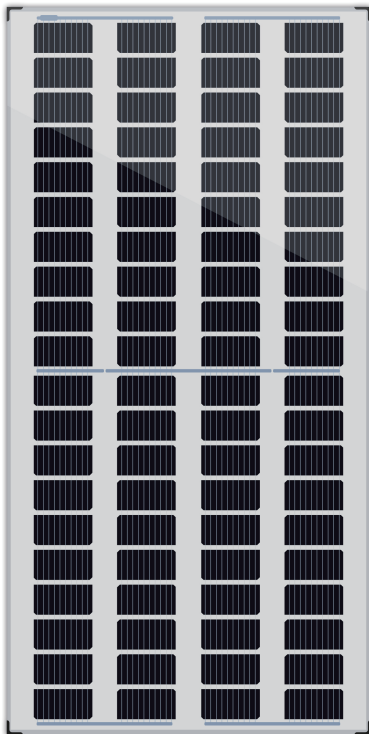


HT40-18X(PD)-F Bifacial Module

NEW

Big Size: Cell 182*91

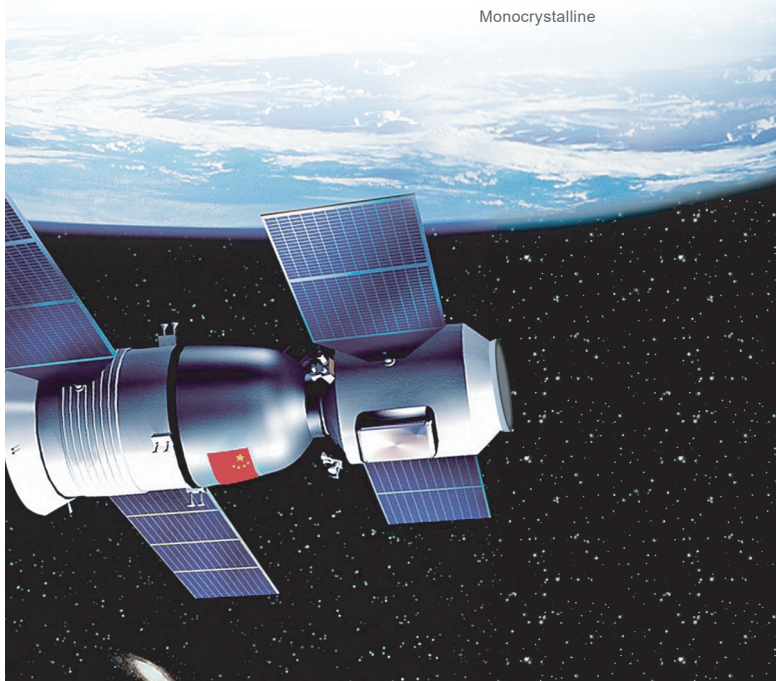
300W / 305W
310W / 315W / 320W



- Glass: Front / Rear is 2.0mm
- Encapsulation: POE
- Light transmittance: 49.0%
- No. of Cells: 80 (4 × 20)
- Weight: 32.5kg
- Dimensions: 2285mm×1134mm×30mm
- Module efficiency: 12.3%
Cell efficiency: 22.5%+
- Bifacial additional energy harvesting up to 30%
*Rear power generation is based on different terrain conditions. The final interpretation right belongs to HT-SAAE.

● (Optional)
Design of Water Leakage Trough

Monocrystalline



Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
website: www.ht-saae.com



Factory :
Lianyungang ShenZhou New Energy Co., Ltd.
Turkey HT Solar Energy Joint Stock Company



Half cut cell technology can reduce the internal power loss and improve component overall power. Excellent heat dissipation avoids hot spot production.



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

12Ys

Products
Warranty

30Ys

Warranty on
power output

EL

Microcrack resistant Double glass structure enhance reliability, triple EL tested of high quality control.



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



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

5W

Positive tolerance
0/+5w guaranteed

PID

PID Resistant



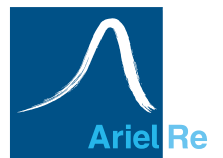
Entire module certified to with stand extreme wind (2400 Pa) and snow loads (5400 Pa)

Comprehensive and first-rate certification system

IEC61215: 2016. IEC61730: 2016 Latest Standard
ISO9001, ISO14001 and OHSAS18001,
meeting the highest international standards
Strict quality control

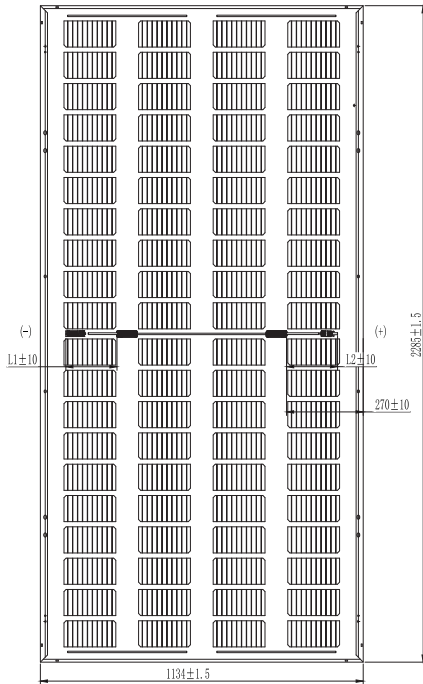
Bloomberg

TIER 1



Member Argo Group

Engineering Drawing



Electrical Characteristics

Module	HT40-18X(PD)-F				
Maximum Power at STC(Pmax)	300	305	310	315	320
Open-Circuit Voltage(Voc)	27.55	27.70	27.85	28.00	28.15
Short-Circuit Current(Isc)	13.89	14.02	14.15	14.28	14.41
Optimum Operating Voltage (Vmp)	23.25	23.40	23.55	23.70	23.85
Optimum Operating Current(Imp)	12.92	13.05	13.18	13.31	13.44
Module Efficiency	11.6%	11.8%	12.0%	12.2%	12.3%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1000V / 1500V DC(IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40 °C to +85 °C				

*STC: Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	HT40-18X(PD)-F				
Maximum Power	223	227	231	234	238
Open Circuit Voltage (Voc)	26.11	26.25	26.40	26.54	26.68
Short Circuit Current (Isc)	11.21	11.31	11.42	11.52	11.63
Maximum Power Voltage (Vmp)	22.04	22.18	22.32	22.46	22.61
Maximum Circuit Current (Imp)	10.12	10.23	10.35	10.42	10.53
NOCT	45°C ±2°C				

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

Mechanical Characteristics

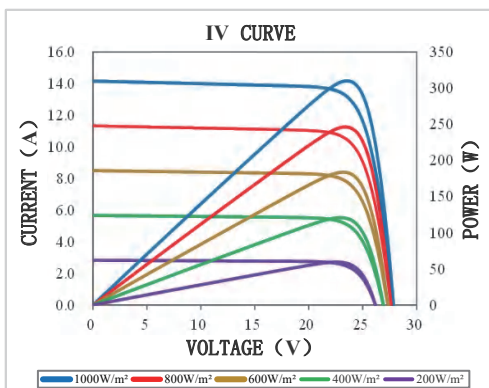
Solar Cells	Monocrystalline 182 × 91 mm
No. of Cells	80 (4 × 20)
Dimensions	2285mm×1134mm×30mm
Weight	32.5 kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (IEC) Length:(+)200mm/ (-)300mm
Connectors	MC4 / MC4 Compatible
Packaging Configuration	36pcs / box, 720pcs / 40'HQ Container

Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/K
Temperature Coefficient of Voc	β (Voc)	-0.29%/K
Temperature Coefficient of Isc	α (Isc)	0.049%/K

I-V Curves

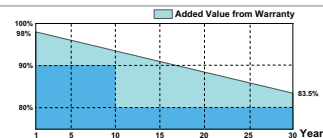
Current-Voltage & Power-Voltage Curve



Warranty

- 12-year product warranty
- 30-year warranty on power output

Specific information is referred to the product quality guarantee



Rear Gain (Take 320W as an example)

Pmax gain	P (W)	Voc (V)	Isc (A)	Vmp (V)	Imp (A)
5%	336	28.17	15.13	23.87	14.11
10%	353	28.19	15.85	23.89	14.78
15%	369	28.21	16.57	23.91	15.46
20%	385	28.23	17.29	23.93	16.13
25%	402	28.25	18.01	23.95	16.80
30%	418	28.26	18.73	23.96	17.47