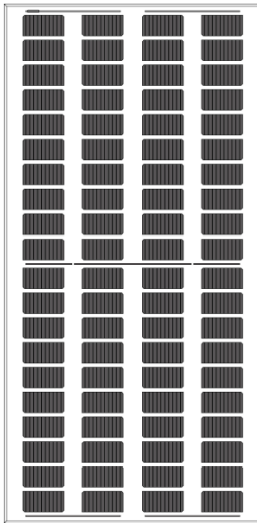


# HT40-18X(PD)-F

**NEW**

Large wafer

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



- Module Efficiency: 12.4%
- Light transmittance 49.0%
- No. of Cells 80 (4×20)
- Weight 32.5kg
- Dimensions 2278×1134×30mm
- Monocrystalline 182×91



MULTIWAY+

Shanghai Aerospace Automobile Electromechanical Co., Ltd.  
Website: www.ht-saae.com  
E-mail: pvmarketing@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.



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



1500V

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

**12Ys**

Products warranty

**30Ys**

Warranty on power output



2%

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

**EL**

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



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

**5W**

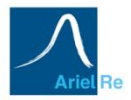
Positive tolerance 0/+5w guaranteed

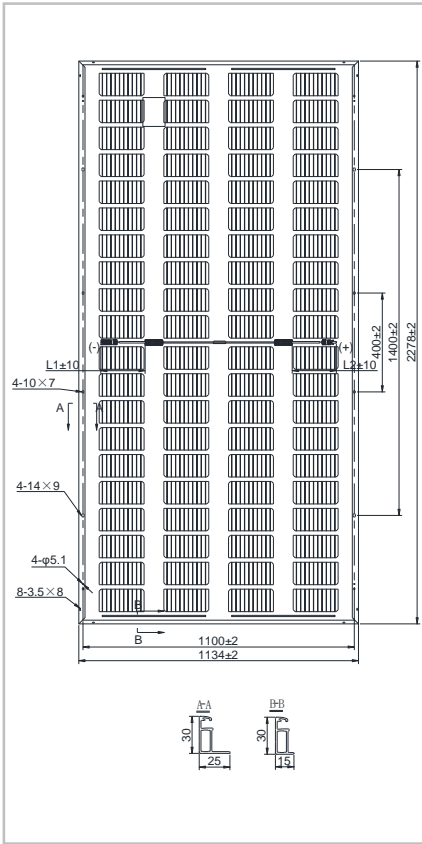
**Anti PID**

PID resistant

**Comprehensive and first-rate certification system**

IEC 61215:2016, IEC 61730:2016 Latest Standard ISO 9001, ISO 14001 and ISO 45001, meeting the highest international standards Strict quality control





### Electrical Characteristics (STC)

Module Type	HT40-18X(PD)-F				
Maximum Power(Pmax)	300W	305W	310W	315W	320W
Open Circuit Voltage(Voc)	27.55V	27.70V	27.85V	28.00V	28.15V
Short Circuit Current(Isc)	13.89A	14.02A	14.15A	14.28A	14.41A
Maximum Power Voltage(Vmp)	23.25V	23.40V	23.55V	23.70V	23.85V
Maximum Power Current(Imp)	12.92A	13.05A	13.18A	13.31A	13.44A
Module Efficiency	11.6%	11.8%	12.0%	12.2%	12.4%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40°C to +85°C				

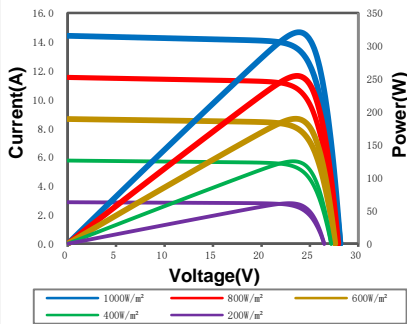
\* STC: AM 1.5, Irradiance 1000W/m<sup>2</sup>, module temperature 25°C

### Electrical Characteristics (NMOT)

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

\* NMOT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

### • IV Curves



Temperature Coefficient of Pmax	$\gamma$ (Pm)	-0.33%/°C
Temperature Coefficient of Voc	$\beta$ (Voc)	-0.26%/°C
Temperature Coefficient of Isc	$\alpha$ (Isc)	0.042%/°C

Solar Cells Monocrystalline 182× 91mm

No. of Cells 80 (4×20)

Dimensions 2278×1134×30mm

Weight 32.5kg

Front Glass High transmission tempered glass

Frame Anodized aluminum alloy

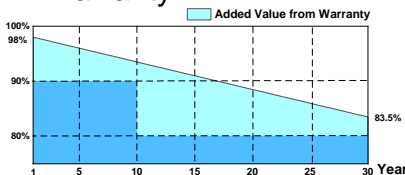
Junction Box IP68

Cable 4mm<sup>2</sup> (IEC) Length: (+) 400mm, (-) 300mm

Connectors MC4 / MC4 Compatible

Packaging Configuration 36 pcs/box: 720 pcs/ 40' HQ Container

### • Warranty



12-year product warranty\*

30-year warranty on power output\*

\* Specific information is referred to the product quality guarantee

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

\*Copyright@2022V2 Specifications are subject to change without further notification