HT-SAAE

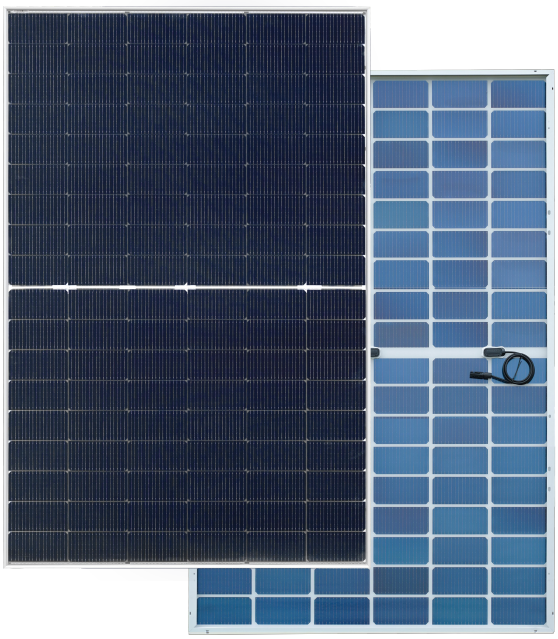
MADE IN TÜRKİYE

HT54-18X(ND)-F Double Glass

High Efficiency ZERO LID and TOPCON cell with Half-cut Technology

Big Size: Cell 182mm × 91mm Monocrystalline

415W / 420W
425W / 430W / 435W



- Module Efficiency
  22.3%
- No.of Cells
  108(6 × 18)
- Weight
  24.0±0.5kg
- Dimensions
  1722mm × 1134mm × 30mm

10-30% Additional Power Generation
10-30% additional power generation comparing with conventional P-type module

ZERO LID (Light Induced Degradation)
N-type solar cell has no LID naturally which can increase power generation

Lower LCOE
Higher power output and lower BOS cost

Better Weak Illumination Response
Higher power output even under low-light environment

Better Temperature Coefficient
Higher power generation under normal working conditions

Enhanced Mechanical Load
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

Comprehensive and First-rate Certification System

IEC61215: 2016.IEC61730: 2016 Latest Standard IS014001 and ISO45001, meeting the highest international standards Strict quality control

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Turkey HT Solar Energy Joint Stock Company

MULTIWAY+

Better Choice For Higher Efficiency!

HT-SAAE

Electrical Characteristics

Module	HT54-18X(ND)-F				
Maximum Power at STC (Pmax)	415W	420W	425W	430W	435W
Open - Circuit Voltage (Voc)	38.0V	38.1V	38.2V	38.3V	38.4V
Short - Circuit Current (Isc)	13.99A	14.07A	14.15A	14.23A	14.31A
Optimum Operating Voltage (Vmp)	31.3V	31.5V	31.7V	31.9V	32.0V
Optimum Operating Current (Imp)	13.26A	13.34A	13.42A	13.50A	13.60A
Module efficiency	21.2%	21.5%	21.7%	22.0%	22.3%
Power Tolerance	0 ~ + 5W				
Maximum System Voltage	1500V DC (UL / IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40 ℃to +85 ℃				

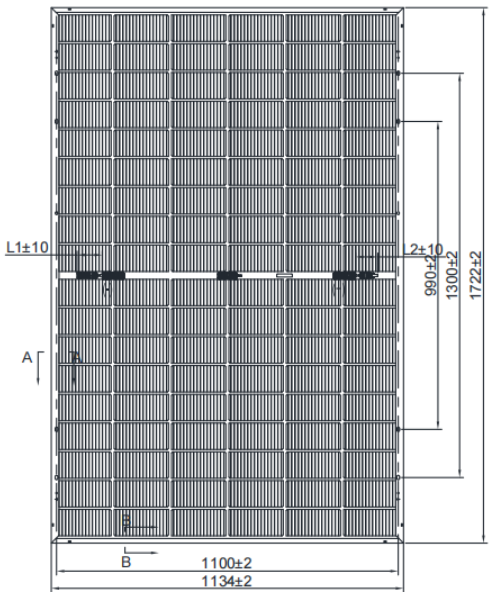
* STC: Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	HT54-18X(ND)-F (Bifaciality 85±5%)				
Maximum Power	315W	319W	323W	327W	331W
Open - Circuit Voltage (Voc)	36.5V	36.6V	36.7V	36.8V	36.9V
Short - Circuit Current (Isc)	11.28A	11.34A	11.40A	11.47A	11.53A
Optimum Operating Voltage (Vmp)	30.0V	30.2V	30.4V	30.7V	30.9V
Optimum Operating Current (Imp)	10.50A	10.56A	10.62A	10.65A	10.71A
NMOT	45±2 ℃				

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

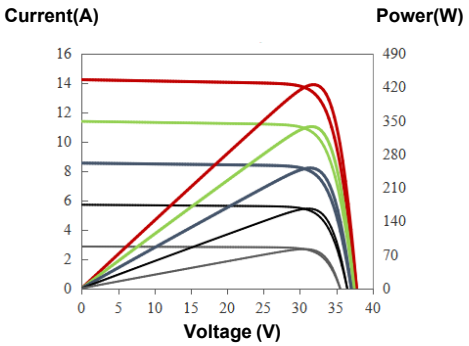
Engineering Drawing



Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 91mm
No.of Cells	108(6 × 18)
Dimensions	1722mm × 1134mm × 30mm
Weight	24.0±0.5kg
Front Glass	High transmission tempered glass; thickness; 2.0mm
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm² (UL / IEC) length; (+)400mm, (-)200mm / length can be customized
Connectors	MC4/MC4 Compatible
Packaging Configuration	36pcs / box,936pcs / 40'HQ container

IV Curves



Temperature Characteristics

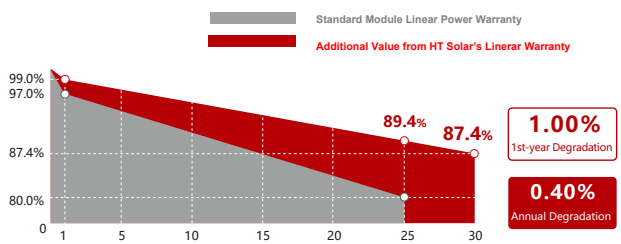
Temperature Coefficient of Pmax	-0.29%/℃
Temperature Coefficient of Voc	-0.23%/℃
Temperature Coefficient of Isc	+0 .046%/℃

Warranty

12 - years
product warranty

30- years
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

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