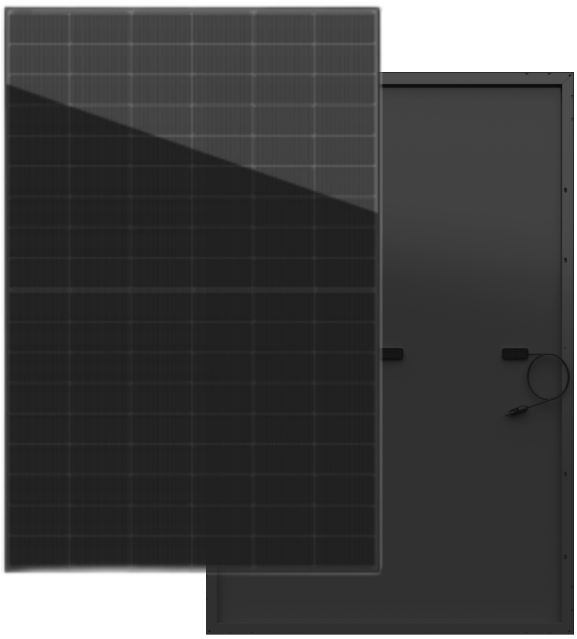
HT-SAAE

Jupiter

HT54-18X (N) Full Black

High Efficiency Lower LID and TOPCon cell with Half-cut Technology
Big Size : Cell 182 × 91.875mm Monocrystalline

430W / 435W
440W / 445W / 450W



- Module Efficiency
  23.0%
- No.of Cells
  108(6 × 18)
- Weight
  21.0±0.5kg
- Dimensions
  1722 × 1134 × 30mm

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

Lower LID (Light Induced Degradation)
N-type modules with Tunnel Oxide Passivating Contacts (TOPCon) technology offer lower LID/LeTID degradation and better low lightperormance

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: 2021 . IEC61730: 2023 . UL61730: 2017 . IEC62804: 2015
ISO9001 . ISO14001 . and . ISO45001

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Turkey HT Solar Energy Joint Stock Company

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Better Choice For Higher Efficiency

HT-SAAE

Electrical Characteristics

Module	HT54-18X (N)				
Maximum Power at STC (Pmax)	430W	435W	440W	445W	450W
Open - Circuit Voltage (Voc)	38.40V	38.60V	38.81V	39.01V	39.22V
Short - Circuit Current (Isc)	14.23A	14.31A	14.37A	14.44A	14.51A
Optimum Operating Voltage (Vmp)	31.90V	32.10V	32.31V	32.51V	32.72V
Optimum Operating Current (Imp)	13.48A	13.55A	13.62A	13.69A	13.76A
Module efficiency	22.0%	22.3%	22.5%	22.8%	23.0%
Power Tolerance	0 ~ + 3%				
Maximum System Voltage	1500V DC (UL / IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40 ℃to +85 ℃				

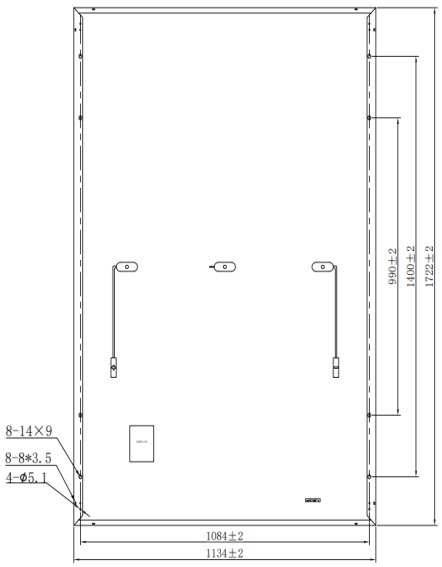
* STC: Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	HT54-18X (N)				
Maximum Power	327W	331W	335W	339W	343W
Open - Circuit Voltage (Voc)	36.80V	36.90V	37.10V	37.20V	37.40V
Short - Circuit Current (Isc)	11.47A	11.53A	11.59A	11.65A	11.71A
Optimum Operating Voltage (Vmp)	30.70V	30.90V	31.10V	31.30V	31.50V
Optimum Operating Current (Imp)	10.65A	10.71A	10.77A	10.83A	10.89A
NMOT	45±2℃				

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

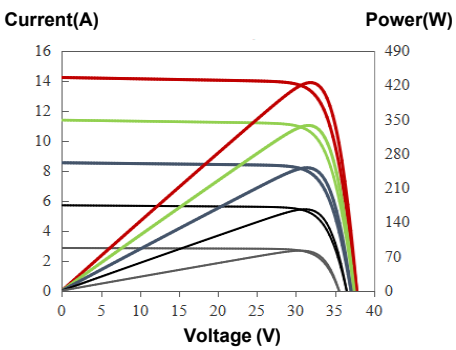
Engineering Drawing



Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 91.875mm
No.of Cells	108(6 × 18)
Dimensions	1722 × 1134 × 30mm
Weight	21.0±0.5kg
Front Glass	High transmission tempered glass; thickness; 3.2mm
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm² (UL / IEC) length：(+)400mm, (-)200mm/ customized length
Connectors	MC4-EVO2/MC4 Compatible
Packaging Configuration	36pcs / box, 936pcs / 40'HQ container

IV Curves



Temperature Characteristics

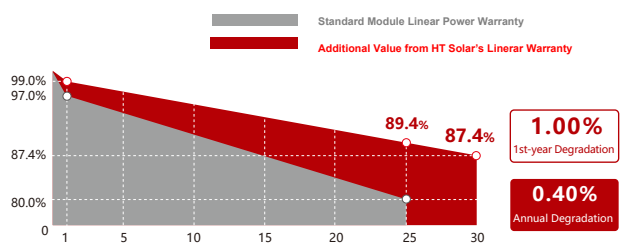
Temperature Coefficient of Pmax	-0.29%/℃
Temperature Coefficient of Voc	-0.23%/℃
Temperature Coefficient of Isc	+0 .046%/℃

Warranty

15 - 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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