

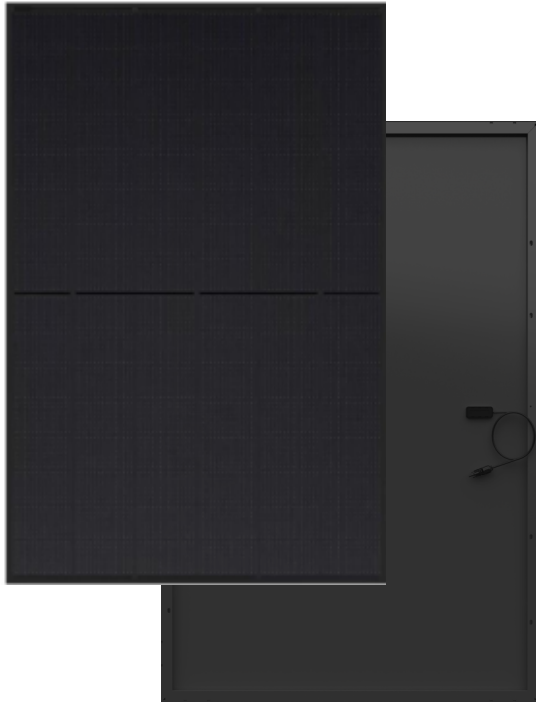
Jupiter Pro

HT48-18X+(N) Full Black

High Efficiency Lower LID and TOPCon cell with Half-cut Technology
Big Size : Cell 182 × 105mm Monocrystalline

430W / 435W

440W / 445W /450W



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 light performance



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)

- Module Efficiency
22.5%
- No.of Cells
96(6 × 16)
- Weight
20.0±0.5kg
- Dimensions
1762 × 1134 × 30mm

Comprehensive and First-rate Certification System

IEC61215: 2021 . IEC61730: 2023 . UL61730: 2017 . IEC62804: 2015
ISO9001 . ISO14001 . and . ISO45001



Jupiter Pro

Better Choice For Higher Efficiency



Electrical Characteristics

Module	HT48-18X+(N)				
Maximum Power at STC (Pmax)	430W	435W	440W	445W	450W
Open - Circuit Voltage (Voc)	34.90V	35.10V	35.30V	35.50V	35.70V
Short - Circuit Current (Isc)	15.71A	15.79A	15.89A	15.97A	16.05A
Optimum Operating Voltage (Vmp)	29.15V	29.30V	29.45V	29.60V	29.75V
Optimum Operating Current (Imp)	14.76A	14.85A	14.95A	15.04A	15.13A
Module efficiency	21.5%	21.8%	22.0%	22.3%	22.5%
Power Tolerance	0 ~ + 3%				
Maximum System Voltage	1500V DC (UL / IEC)				
Maximum Series Fuse Rating	35A				
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

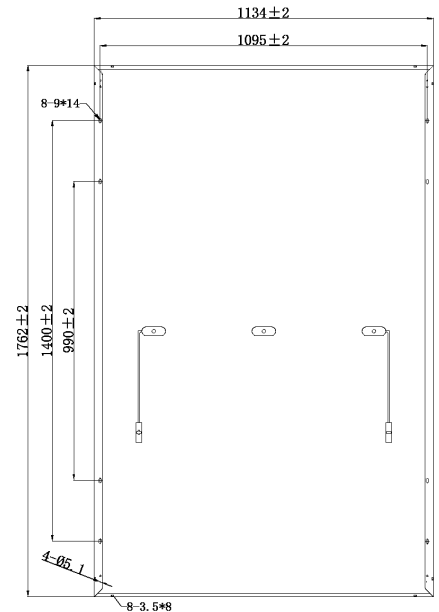
Module	HT48-18X+(N)				
Maximum Power	324W	328W	332W	336W	340W
Open - Circuit Voltage (Voc)	32.90V	33.10V	33.30V	33.50V	33.60V
Short - Circuit Current (Isc)	12.68A	12.75A	12.83A	12.89A	12.96A
Optimum Operating Voltage (Vmp)	27.20V	27.30V	27.50V	27.60V	27.80V
Optimum Operating Current (Imp)	11.91A	12.02A	12.07A	12.16A <td 12.22A	
NMOT	45±2 C				

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

Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 105mm
No. of Cells	96 (6 × 16)
Dimensions	1762 × 1134 × 30mm
Weight	20.0±0.5kg
Front Glass	High transmission coated tempered glass; thickness; 3.2mm
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (UL / IEC) length : (+) 400mm (-) 200mm/customized length
Connectors	MC4-EVO2/MC4 Compatible
Packaging Configuration	36pcs / box, 936pcs / 40'HQ container

Engineering Drawing



Temperature Characteristics

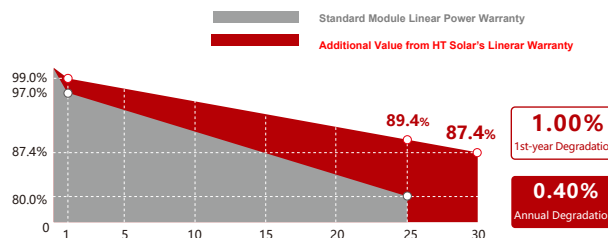
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C

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

IV Curves

