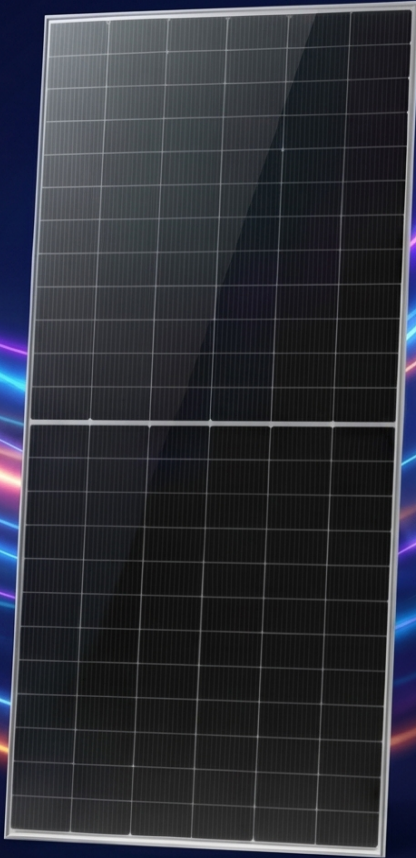


HZS - 460 W

MONOCRYSTALLINE SOLAR MODULE



Trust Hangzhou Solar
photoelectricity to Deliver
Reliable Performance
Over Time



Reliable IP68 Rated Junction Box

Feature



Hangzhou Solar current sorting process

System output maximized by reducing mismatch losses upto 2% with modules sorted & packaged by amperage



High module conversion efficiency

Module efficiency up to 22.5% achieved through advanced cell technology and manufacturing capabilities



Self-cleaning & anti-reflective

Higher module efficiency from anti-reflective, hydrophobic layer with higher light absorption and minimal surface dust



Excellent weak light performance

Excellent performance under low light conditions



Extended wind and snow load tests

Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal)



Positive tolerance

Guaranteed positive tolerance of up to 5% delivers higher outputs reliably



Maximize customer benefits

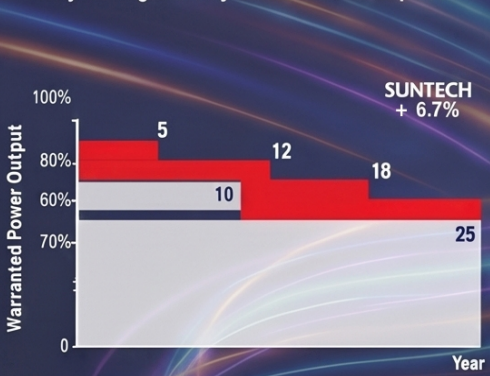
Maximize the benefits of and customers



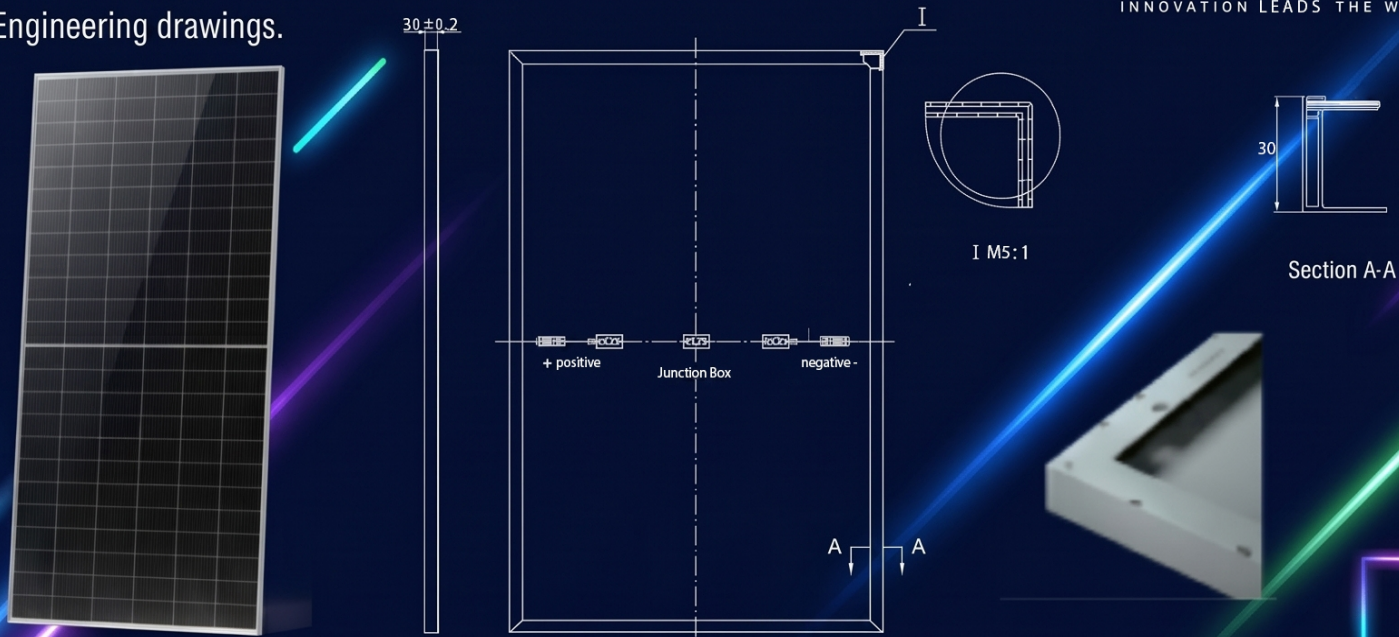
Strict quality control

Very strict quality control process and introduction of lean production mode

Industry-leading Warranty based on nominal power



Engineering drawings.



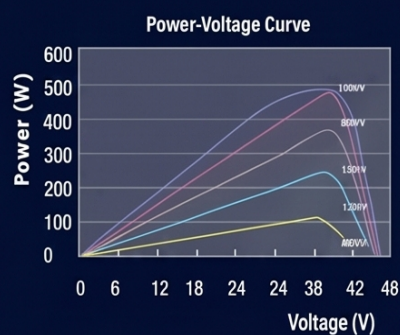
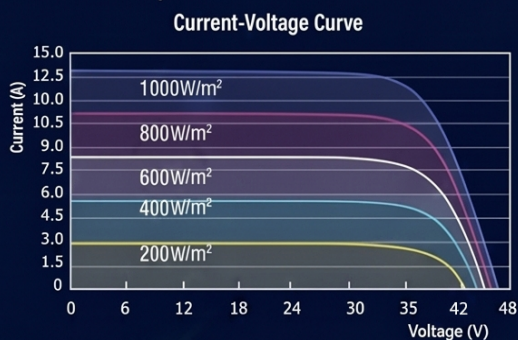
Mechanical Characteristics

Cell type		Monocrystalline silicon 182×91mm
No. of Cells		144 (6×12×2)
Dimensions		2278×1134 x30mm
Weight		26kg
Front Glass		3.2 mm tempered glass
Frame		Anodized aluminium alloy

Temperature Characteristics

	Nominal Operating Cell Temperature	45±2°C
	Temperature Coefficient of Pmax	-0.40 %/°C
	Temperature Coefficient of Voc	-0.31 %/°C
	Temperature Coefficient of Isc	0.051 %/°C

I-V Curves of pv module



Electrical Characteristics

STC	HZS - 460W
Maximum Power at STC (Pmax)	460W
Optimum Operating Voltage (Vmp)	41.4V
Optimum Operating Current (Imp)	11.12A
Open Circuit Voltage (Voc)	50.92V
Short Circuit Current (Isc)	11.89A
Module Efficiency	21.10%
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500 V DC (IEC)
Power Tolerance	0-5%

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5.