

**HUASUN**

*NO.1 in Heterojunction*

# HUASUN HJT

## Shining in China's Frozen North

Mohe, China's northernmost point, is known for its harsh winters and limited sunlight, which places high demands on solar modules to perform reliably in extreme conditions. Here, **Huason HJT modules** must prove their ability to excel under these challenging circumstances.



# 01

## Freezing Temperatures

### Installation Details

<b>Modules:</b>	210 HJT, 210 TOPCon, 182 BC, 210 PERC
<b>Test Duration:</b>	Three Months (Oct. to Dec.)
<b>Mounting Type:</b>	Fixed, 2H*4
<b>Tilt:</b>	25 °
<b>Height:</b>	1.7 m
<b>Row-to-Row Spacing:</b>	7.0 m
<b>Ground Surface:</b>	Gravel & Soil
<b>Grid-connected Mode:</b>	String Inverters

<b>Project Site:</b>	CTC's Mohe Outdoor Empirical Base (Daxing'anling District, Heilongjiang Province, North China)
<b>Location:</b>	52.97° N, 122.53° E
<b>Climate Type:</b>	Temperate Continental Climate
<b>Avg. Annual Temp.:</b>	-3.5 °C
<b>Yearly GHI:</b>	1330 kWh/m <sup>2</sup>
<b>Avg. Annual Relative Humidity:</b>	70.3 %



# 02 Superior Performance

Even as most of China stayed above freezing, Mohe was already experiencing a sharp  $-36^{\circ}\text{C}$ . By analyzing key data such as DC voltage/current, module temperature, irradiance, and ambient temperature, this project delivered exceptional insights into how HJT technology outperforms.



## Higher Bifacial Gain

With an exceptional module bifaciality, the modules captured greater backside gain in the frigid, snowy environment.



## Exceptional Load Resistance

No abnormalities were detected in mechanical performance, highlighting Huasun HJT modules' outstanding snow-load tolerance and high reliability.

# 16%+

daily gain was achieved by Huasun HJT modules compared to **PERC**, **BC**, and **TOPCon** modules



# 03

## Optimized Customer Returns

The Mohe empirical base highlights Huasun HJT modules' exceptional performance in extreme cold conditions, setting a new benchmark for reliability.



### Extreme Environment Adaptability

Huasun HJT products exhibit exceptional stability and reliability, whether in extreme cold or intense heat, providing users with long-term reliability and lower maintenance costs.



### Exceptional Power Generation

Huasun HJT modules maintain high, stable power generation performance, even in low-irradiance environments.



### Proven Durability

Mohe empirical results reinforce the extended lifespan of Huasun modules in extremely cold conditions, providing customers with superior long-term investment returns.



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IN

# HETERO JUNCTION

Huasun keeps transforming promises into tangible results with unparalleled efficiency and performance. Even in the most challenging climates, Huasun HJT modules perform flawlessly, advancing the future of green energy and securing **solar leads as the No.1 energy.**



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