420W Monocrystalline Panel

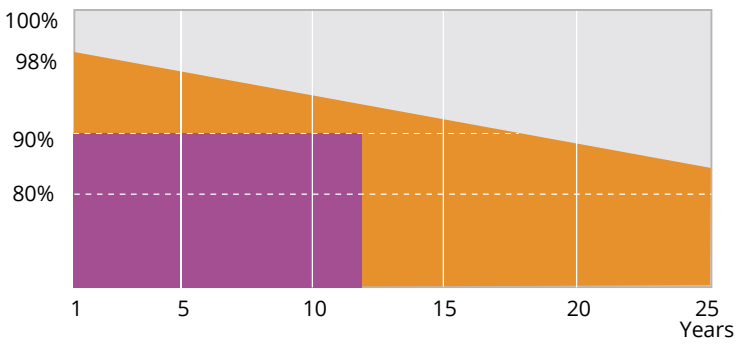
PHASE RENEWABLES
"The Green Choice"

Product Features

- **Adopting multi-main shed (MBB) half-sheet technology-** the output power is away from SSOW, and the conversion efficiency of the module reaches 22.28%.
- **Anti-PID performance-** PID Potential significantly reduced due to the quality of the components. The manufacturing process occurs under 60° /85% conditions also helping to reduce the degradation effects.
- **11/16 main grid cells-** All the cells are upgraded to 11/16 main grid cells, which have stronger current collection capability and more stable power output.
- **Mechanical load-** Certified for wind load of 2400Pa at the back of the assembly and snow load of 5400Pa at the front.
- **Excellent low light power generation performance-** Excellent electrical performance output under low light conditions.
- **Low light attenuation-** Rigorous ATLAS steady-state light testing ensures excellent photoluminescence performance for each batch of modules.
- **Rigorous EL testing-** Spatial resolution is less than 0.5mm, and more than two EL tests before and after to ensure zero defects inside the component.
- **Fully automated component production line-** Guarantee 100% online production and 100% online inspection to ensure consistent product quality.

First Class Quality Assurance

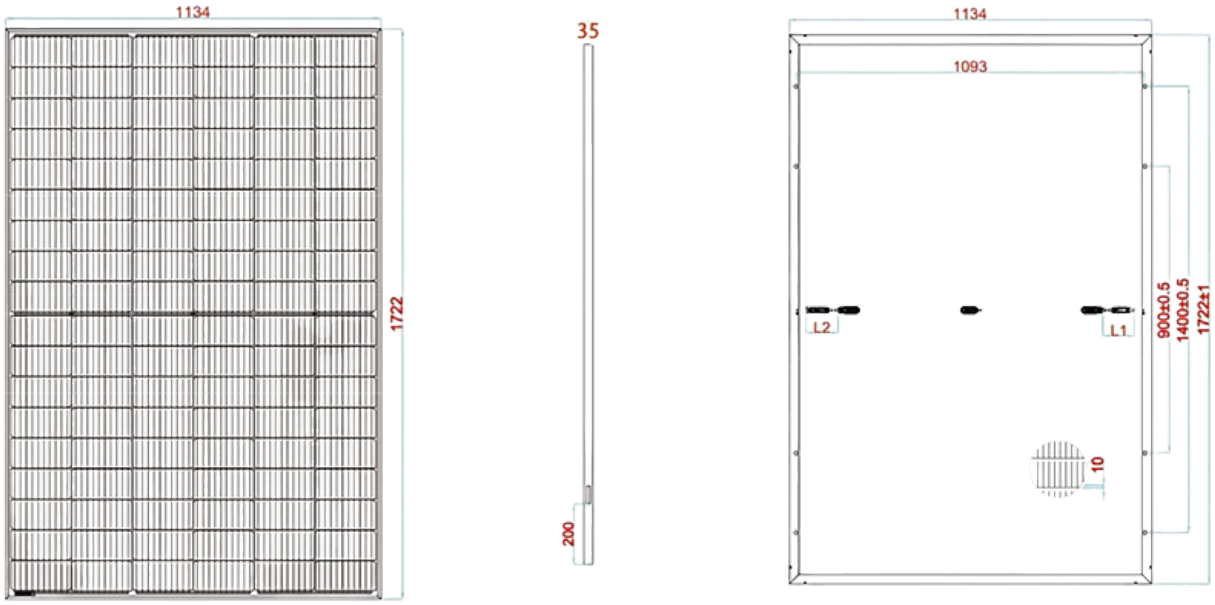
- 12-year product material and workmanship warranty
- 25-year linear power output warranty



Whole System and Product Certification

- MCS
- TUV
- IEC 61215, IEC 61730
- CE
- ISO9001:2015
- ISO 14001:2004
- ISO 20015:2018

Engineering Drawings



Parameters

Mechanical Parameters	
Model	TE-7MU-420W
Weight	21.5kg
Size	1722x1134x35mm
Battery Cell	108(6*18)
Cable Sectional Area	4mm²
Junction Box	IP68, 3 diodes
Connector	MC4 compatible connector

Electrical Performance Parameters at STC		
Max. Power (W)		420W
VMP (V)		32.05V
IMP (A)		13.10A
VOC (V)		38.03V
ISC (A)		13.99A
Module Efficiency (%)		21.51%
Power Tolerance (W)		0~+5W
Standard Testing Conditions (STC)	Irradiance: 1000W/m²	Battery Temperature: 25°C Spectrum: AM1.5G

Working Parameters	
Max. System Voltage	1500V (TUV)
Operating Temperature	-40°C~+85°C
Max. Fuse Current Rating	25A
Max. Static Load, Front	5400 Pa
Max. Static Load, Back	2400 Pa
Nominal Battery Operating Temperature	45±2°C
Application Level	Class A

Electrical Performance Parameters at NOCT		
Max. Power (W)		312W
VMP (V)		29.91V
IMP (A)		10.45A
VOC (V)		35.56V
ISC (A)		11.67A
Normal Operating Cell Temperature (NOCT)	Irradiance: 800W/m² Environment Temperature: 20°C	Spectrum: AM1.5G Wind speed: 1m/s

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