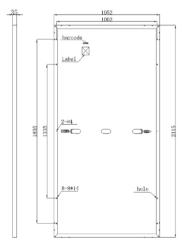


HIGH EFFICIENCY HIGH QUALITY PV MODULE

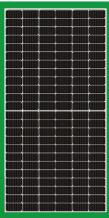
Electrical Characteristics	NCTS-SP450WM
Maximum power (Pmax)	450W
Voltage at Pmax (Vmp)	41.47V
Current at Pmax (Imp)	10.85A
Open-circuit voltage (Voc)	49.51V
Short-circuit current (Isc)	11.78A
Temperature coefficient of Voc	-(0.40 ± 0.05)%/ °C
Temperature coefficient of Isc	(0.065 ±0.01)% /°C
Temperature coefficient of power	-(0.5±0.05)%/ °C
NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Operating temperature	-40°C to 85°C
Maximum system voltage	1000V DC
Power tolerance	+ 3%
Cells	Monocrystalline solar cell
No. of cells and connections	144 (6*24)
Module Dimension	2115*1052*35mm
Weight	25kg

^{*} STC:Irradiance 1000W/m², AM1.5 spectrum, module temperature 25°C

Module Diagram

















Key Features:

- Using high efficiency solar cells
- High quality junction box and connector systems
- solar systems

Technology:

- Excellent performance in low-light environment

Product Advantage:

- 9 Busbar Solar Cell (166*83mm) 5&9 busbar solar cell adopts new technology
- High Voltage UL and IEC 1500V certified; lowers BOS costs and yields better LCOE
- High Efficiency benefit from half cell structure (low resistance characteristic).
- Low-light Performance Advanced glass and cell surface textured design ensure excellent performance in low-light environment.
- Durability Against Extreme Environmental Conditions High salt mist and ammonia resistance certified by TUV NORD.
- Severe Weather Resilience Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



^{*} Specifications are subject to change without notice at any time.