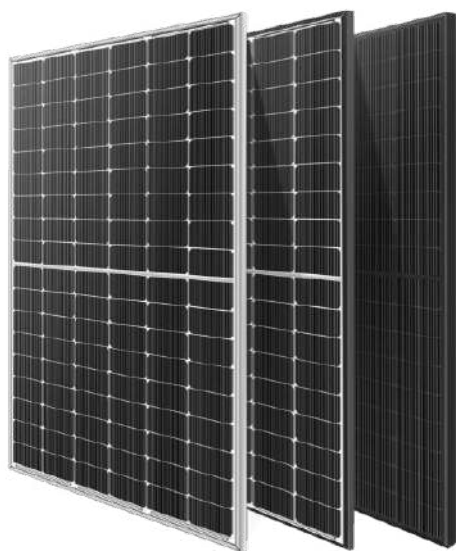


JT SSt(B) 495-510W

Dual-glass Monocrystalline Solar Module

108Cells / MBB / Bifacial Mono TOPCon / 1500V DC / 22.93% Maximum Efficiency



KEY FEATURES



Leading TOPCon technology

MBB N-type TOPCon solar cell, maximum power output 590W
Better anti-LID & LETID performance



Highly reliable due to stringent quality control

Excellent PID resistance, 100% EL double inspection
In-house testing goes well beyond certification requirements



High bifaciality

80% bifacial rate, additional 25% more yield than PERC
Lower LCOE



Certified to withstand the most challenging environment

2400 Pa wind load • 5400 Pa snow load • 25 mm hail stones at 82 km/h

QUALIFICATIONS & CERTIFICATES

- IEC 61215, IEC 61730
- ISO 9001: Quality Management System
- ISO 14001: Environment Management System
- ISO 45001: Occupational Health and Safety

CLELO MATERIALS

Jiangsu Clelo Materials Technology Co., Ltd. is located in Changshu, known as the "Land of Blessings in Jiangnan." With years of product development experience, the company specializes in energy-saving and environmentally friendly solutions, upholding green, clean, and healthy values as its core principles.

WARRANTY

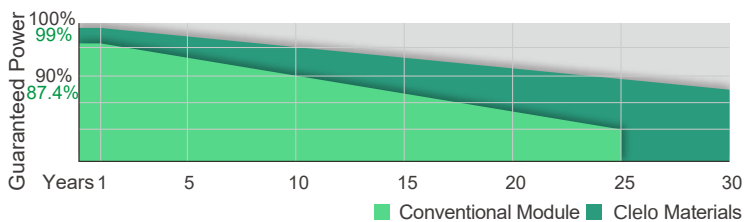


Product
Warranty



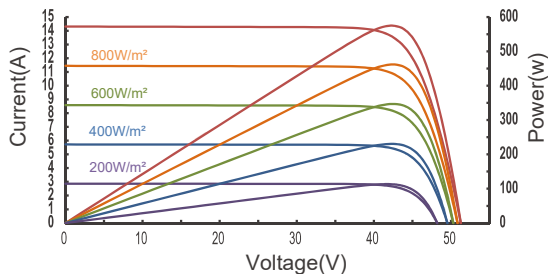
Performance
Warranty

Additional Value From Clelo Materials's Linear Warranty

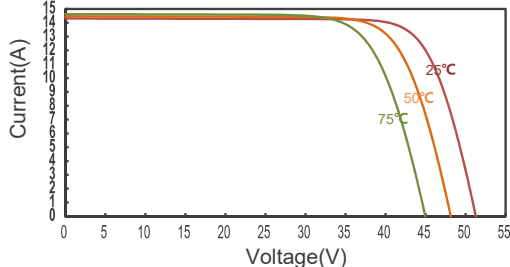


IV CURVES

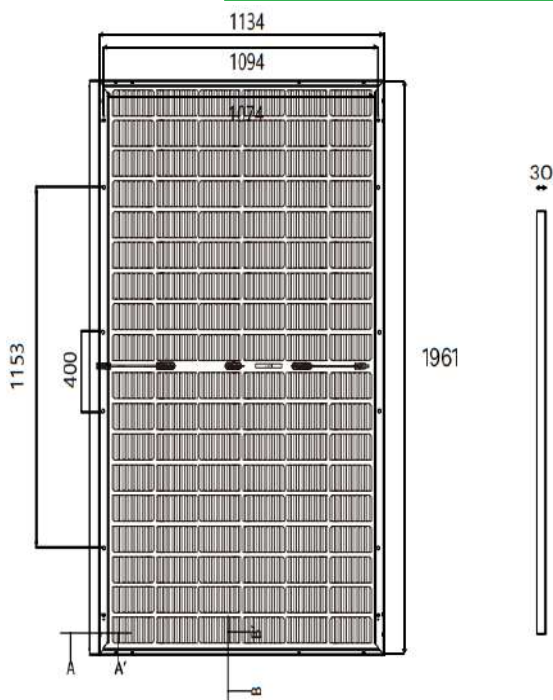
IV Curves of JT510St(B) at different irradiances



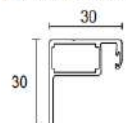
IV Curves of JT510St(B) at different Temp



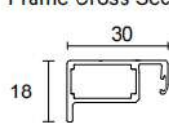
DIMENSION



Frame Cross Section A-A



Frame Cross Section B-B



ELECTRICAL DATA

TYPE (Tolerance: 0 - +5W)	JT495SSStB		JT500SSStB		JT505SSStB		JT510SSStB	
Test Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power Pmax (W)	495	377	500	381	505	384	510	389
Maximum Power Voltage Vmp (V)	33.13	31.12	33.33	31.32	33.53	31.52	33.73	31.72
Maximum Power Current Imp (A)	14.94	12.11	15.00	12.16	15.06	12.18	15.12	12.26
Open Circuit Voltage Voc (V)	39.82	37.79	40.07	38.06	40.32	38.33	40.57	38.6
Short Circuit Current Isc (A)	15.84	12.76	15.90	12.79	15.96	12.81	16.01	12.87
Module Efficiency (%)	22.6%		22.48%		22.71%		22.93%	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Measuring tolerance: ±3%

TEMPERATURE RATINGS

Temperature Coefficient of Isc (αIsc)					+0.046%/°C
Temperature Coefficient of Voc (βVoc)					-0.25%/°C
Temperature Coefficient of Pmax (γPmp)					-0.30%/°C
Normal Module Operating Temperature (NMOT)					41°C±3°C

OPERATING PARAMETERS

Maximum System Voltage	1500V/DC(IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	25A
Maximum Test Load, Push/Pull	5400Pa/2400Pa
Conductivity at Ground	≤ 0.1Ω
Safety Class	II
Resistance	≥ 100MΩ
Voc and Isc Tolerance	±3%
Bifaciality	80±5%

MECHANICAL DATA

Solar Cell Type	N-type
Number of Cells	108
Module Dimensions	1762×1134×30 (mm)
Weight	27.7 (kg)
Front Cover	High transmission, AR coated tempered glass, 2.0mm
Back Cover	High transmission, AR coated tempered glass), 2.0mm
Frame	Silver, anodized aluminium alloy
J-Box	≥ IP68
Cable	4.0 mm² solar cable, 400mm(+)/200mm(-) or 300mm
Number of diodes	3

PACKAGING CONFIGURATION

Module per pallet	36+36 pcs
Module per 40'HQ container	12pallets
	864 pieces