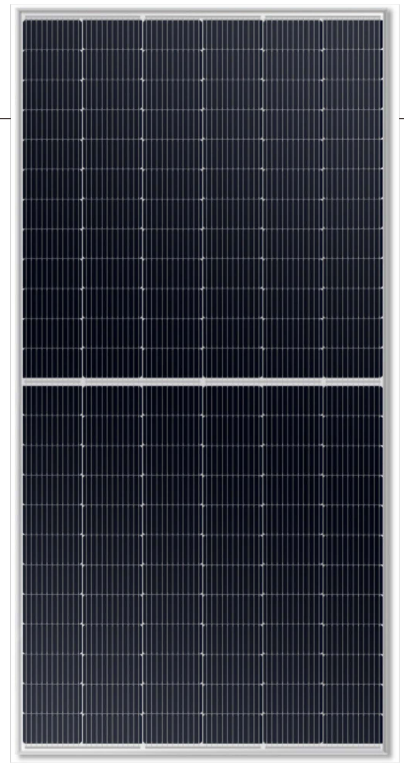


MOTECH

POWER UP NOW



HALF CUT 144 CELL

MONOCRYSTALLINE MODULE

520-550W

POWER OUTPUT RANGE

21.28%

MAXIMUM EFFICIENCY

0~+5W

BINNING TOLERANCE

10BB

MULTI BUSBAR

PERC CELL TECHNOLOGY

PRODUCTS

Tokyo Series

POWER RANGE

525-550W



High power Mono Perc

- Up to 550W front power and 21.28% module efficiency with half cut tech
- MBB (Multi Busbar) technology bringing more BOS savings
- Lower resistance and good reflection effect of MBB ensure high power



High reliability

- Ensured PID resistance through cell process and module material control
- Resistant to salt, acid and ammonia
- Proven to be reliable in high temperature and humidity areas
- Certified to fire class A
- Minimizes micro-crack and snail trails
- Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative



High energy generation

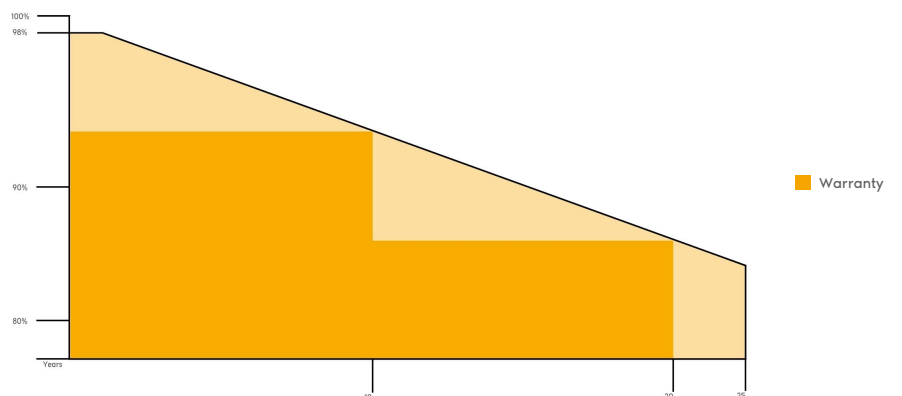
- Up to 25% additional power gain from back side depending on the design
- Excellent current and low light performance validated by 3rd party
- Perfect cell process and module material optimization
- Lower temp coefficient (-0.35%) and NMOT bring more energy
- Better anti-shading performance and lower operating temperature



Easy to install

- Frame design makes module compatible with all racking and installation methods
- Easy to handle and install as normal framed module during transportation

Industry-leading warranty



SYSTEM CERTIFICATES

IEC61215/IEC61730/IEC61701/IEC62716

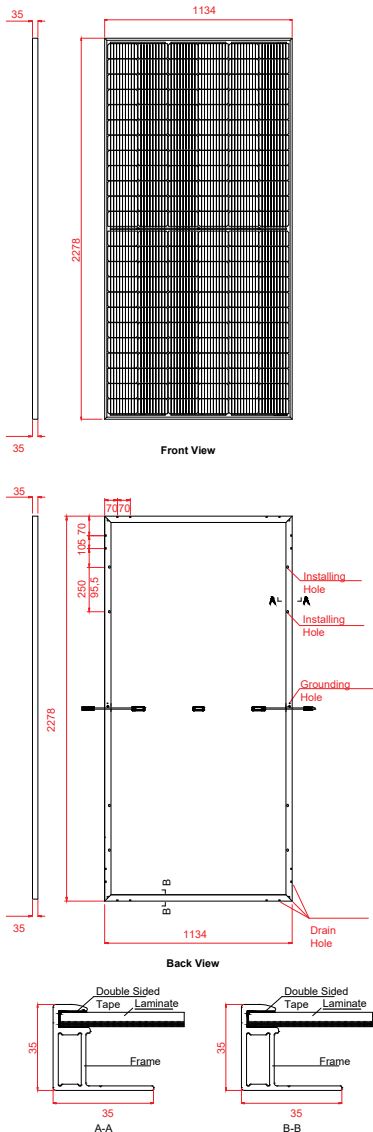
ISO 9001: Quality Management System

ISO 14001: Environmental Management

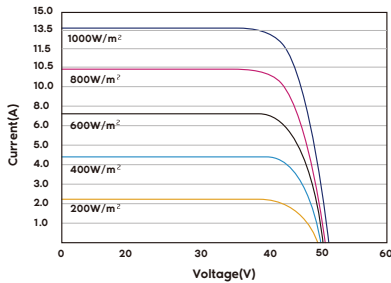
ISO45001: Occupational Health and Safety



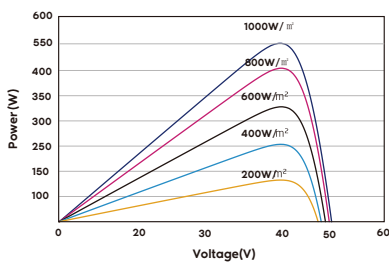
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(550W)



P-V CURVES OF PV MODULE(550W)



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	520	525	530	535	540	545	550
Power Tolerance Range-PMAX (W)	0 - +5						
Maximum Power Voltage-VMPP (V)	41,2	41,3	41,4	41,5	41,65	41,80	41,96
Maximum Power Current-IMPP (A)	12,62	12,72	12,80	12,89	12,97	13,04	13,11
Open Circuit Voltage-VOC (V)	49,44	49,56	49,68	49,8	49,98	50,16	50,35
Short Circuit Current-ISC (A)	13,32	13,41	13,5	13,60	13,68	13,75	13,83
Module Efficiency ° m (%)	20,2	20,31	20,51	20,7	20,89	21,09	21,28

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Measuring tolerance: ±3%.

ELECTRICAL DATA (NMOT)

Maximum Power-PMAX (Wp)	390	394	398	401	405	409	413
Maximum Power Voltage-VMPP (V)	38,32	38,41	38,50	38,60	38,73	38,87	39,02
Maximum Power Current-IMPP (A)	10,17	10,25	10,32	10,40	10,46	10,51	10,57
Open Circuit Voltage-VOC (V)	46,48	46,59	46,70	48,81	46,98	47,15	47,33
Short Circuit Current-ISC (A)	10,91	10,98	11,05	11,13	11,20	11,26	11,32

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

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	144 cells (6 × 24)
Module Dimensions	2278×1134×35 mm (±0,1%)
Weight	28.KG
Front Glass	3,2 mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	POE/EVA
Back Glass	KPF Type
Frame	35mm Anodized Aluminium Alloy
J-Box	IP 68 rated and 30cm or (optional 120cm cable)
Cables	Photovoltaic Technology Cable 4.0mm ²
Connector	MC4 EVO2 / TS4

TEMPERATURE RATINGS

NMOT(Nominal Module Operating Temperature)	45°C (±2°C)
Temperature Coefficient of PMAX	-0.35 °C%
Temperature Coefficient of VOC	-0.28 °C%
Temperature Coefficient of ISC	+0.048%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85 °C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	25A

WARRANTY

10 year Product Workmanship Warranty
25 year Power Warranty
2% first year degradation
0.45% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box	32 pcs
Modules per 40' Container	640 pcs

