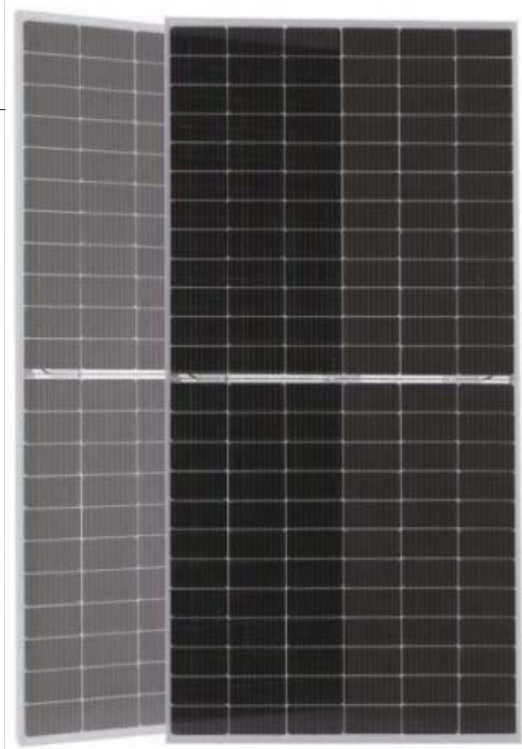


MOTECH

POWER UP NOW



HALF CUT 144 CELL

MONOCRYSTALLINE MODULE

525-550W

POWER OUTPUT RANGE

21.28%

MAXIMUM EFFICIENCY

0~+5W

BINNING TOLERANCE

10BB

MULTI BUSBAR

BIFACIAL TECHNOLOGY

PRODUCTS

Bifacial 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

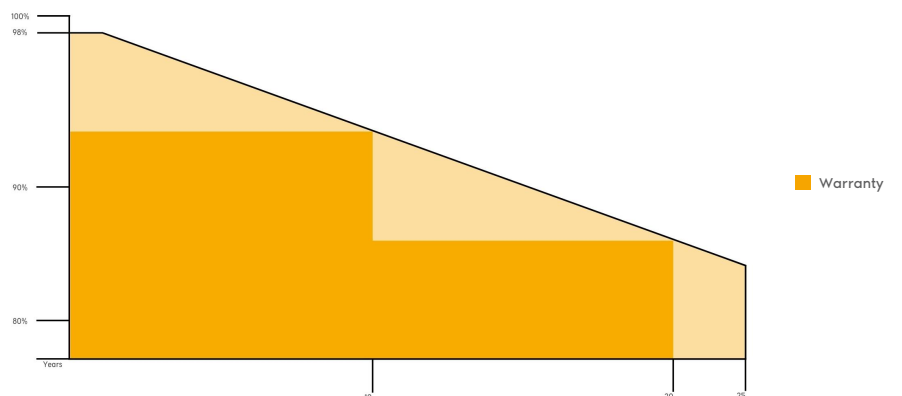
- Up to 25% additional power gain from back side depending on the design
- Excellent current and low light performance validated by 3rd party
- Perfect cell process and module material optimization
- Lower temp coefficient (-0.35%) and NMOT bring more energy
- Better anti-shading performance and lower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

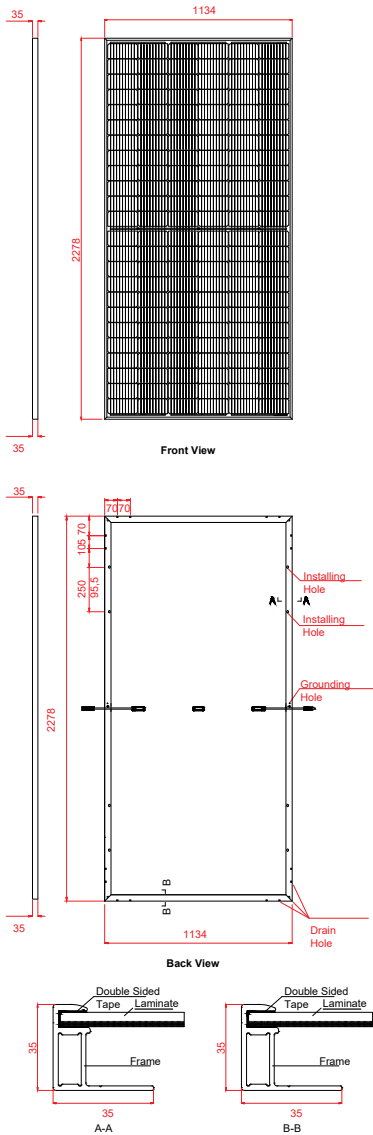
ISO 9001: Quality Management System

ISO 14001: Environmental Management

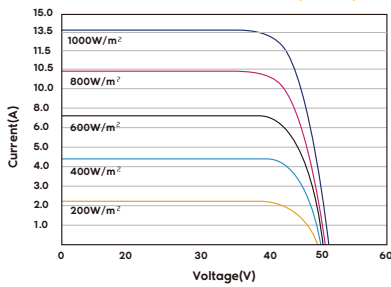
ISO45001: Occupational Health and Safety



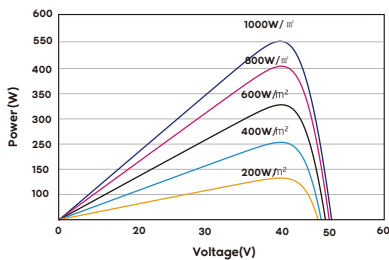
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(550W)



P-V CURVES OF PV MODULE(550W)



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	525	530	535	540	545	550
Power Tolerance Range-PMAX (W)	0 - +5					
Maximum Power Voltage-VMPP (V)	41,3	41,4	41,5	41,65	41,80	41,96
Maximum Power Current-IMPP (A)	12,71	12,80	12,89	12,97	13,04	13,11
Open Circuit Voltage-VOC (V)	49,56	49,68	49,8	49,98	50,16	50,35
Short Circuit Current-ISC (A)	13,41	13,5	13,60	13,68	13,75	13,83
Module Efficiency ° m (%)	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)	394	398	401	405	409	413
Maximum Power Voltage-VMPP (V)	38,41	38,50	38,60	38,73	38,87	39,02
Maximum Power Current-IMPP (A)	10,25	10,32	10,40	10,46	10,51	10,57
Open Circuit Voltage-VOC (V)	46,59	46,70	48,81	46,98	47,15	47,33
Short Circuit Current-ISC (A)	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.

BIFACIAL OUTPUT-REARSIDE POWER GAIN

Maximum Power (Pmax) (Wp) %5	551,25	556,5	561,75	567	572,25	577,5
Module Efficiency STC (%) %5	21,33%	21,53%	21,74%	21,94%	22,14%	22,35%
Maximum Power (Pmax) (Wp) %10	577,5	583	588,5	594	599,5	605
Module Efficiency STC (%) %10	22,35%	22,56%	22,77%	22,98%	23,20%	23,41%
Maximum Power (Pmax) (Wp) %15	603,75	609,5	615,25	621	626,75	632,5
Module Efficiency STC (%) %15	23,36%	23,58%	23,81%	24,03%	24,25%	24,47%

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	-
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

PACKAGING CONFIGURATION

Modules per box	32 pcs
Modules per 40' Container	704 pcs

WARRANTY

12 year Product Workmanship Warranty
30 year Power Warranty
2% first year degradation
0.45% Annual Power Attenuation

(Please refer to product warranty for details)

