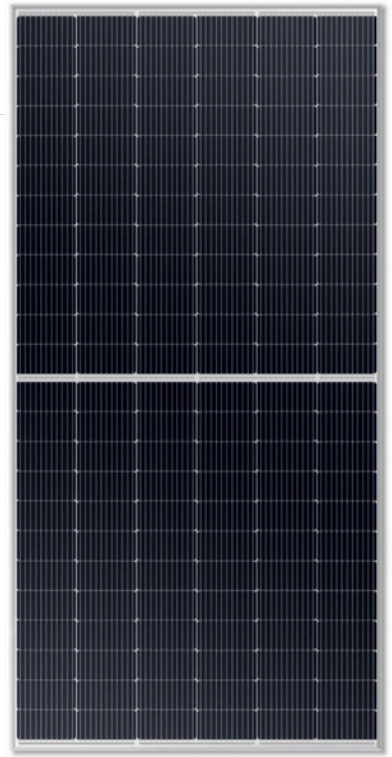


# MOTECH

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

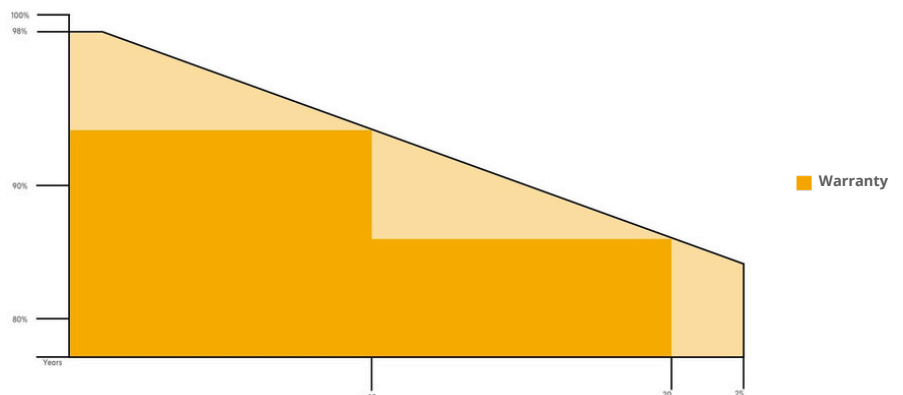
- Excellent current and low light performance validated by 3rd party
- Perfect cell process and module material optimization
- **Lower temp coefficient (-0.35%) and NMOT bring more energy**
- Better anti-shading performance and lower operating temperature



### 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

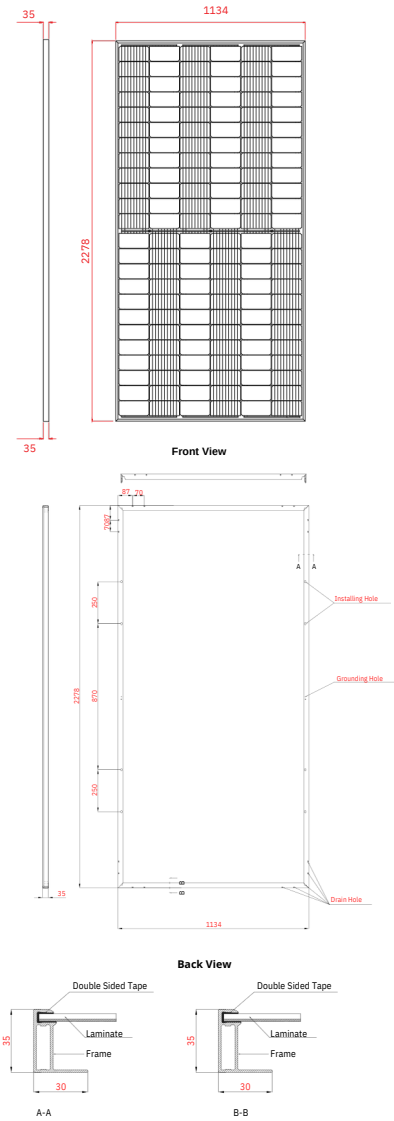


### SYSTEM CERTIFICATES

IEC61215/IEC61730/IEC61701/IEC62716  
ISO 9001: Quality Management System  
ISO 14001: Environmental Management  
ISO45001: Occupational Health and Safety



### DIMENSIONS OF PV MODULE(mm)



### 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/m<sup>2</sup>, 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/m<sup>2</sup>, 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 4.0mm2
Connector	MC4 EVO2 / TS4

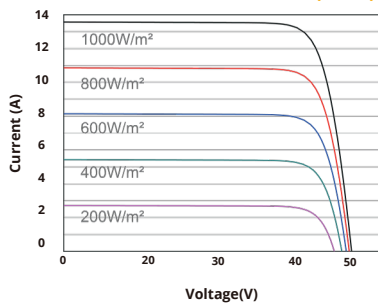
### TEMPERATURE RATINGS

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

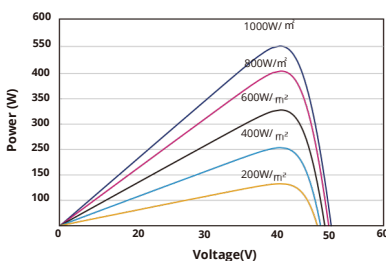
### MAXIMUM RATINGS

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

### I-V CURVES OF PV MODULE(550W)



### P-V CURVES OF PV MODULE(550W)



### WARRANTY

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

(Please refer to product warranty for details)

The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Motech Brand reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

### PACKAGING CONFIGURATION

Modules per box	33 pcs
Modules per 40' Container	660 pcs

