

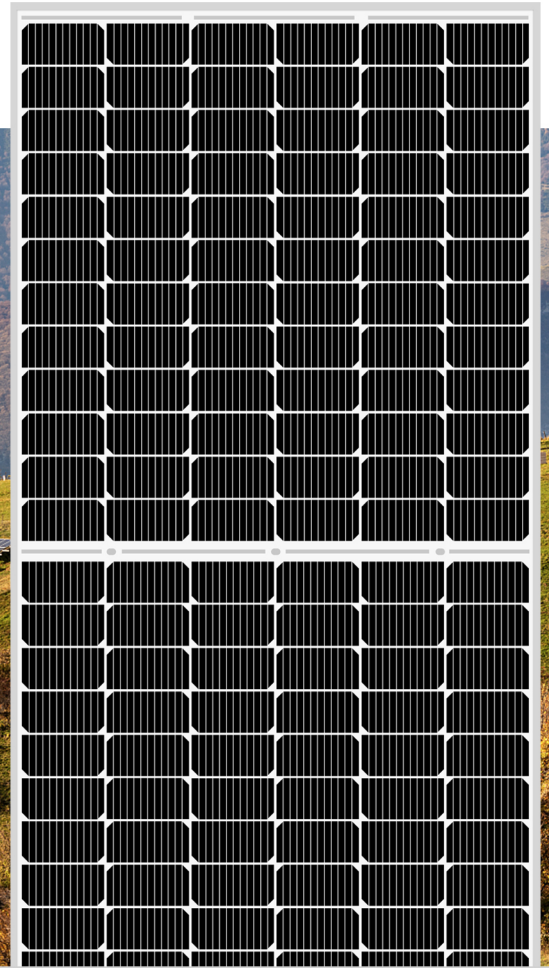
GERMAN BRAND SOLAR PANEL
M10 HALF CELL MONO 550W

144 CELL
MBB MONO PERC

21.3%
MAXIMUM EFFICIENCY

530W-550W
POWER OUTPUT RANGE

0 to +5W
POSITIVE POWER TOLERANCE



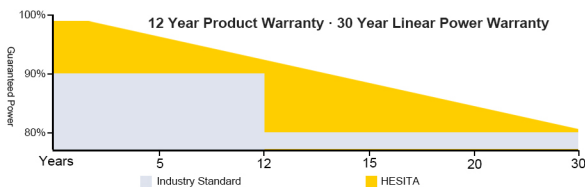
Higher Output of Power
Effectively reduce the unit cost of PV solar system by watt

Optimize the temperature coefficient
Improve the performance under the condition of shadow and low temperature coefficient

Reduce the shadow loss on the power output
Effectively reduce the risk of heat spot on high efficiency

Stronger the physical property
Optimize the property of power generating and reliability of the system

LINEAR PERFORMANCE WARRANTY

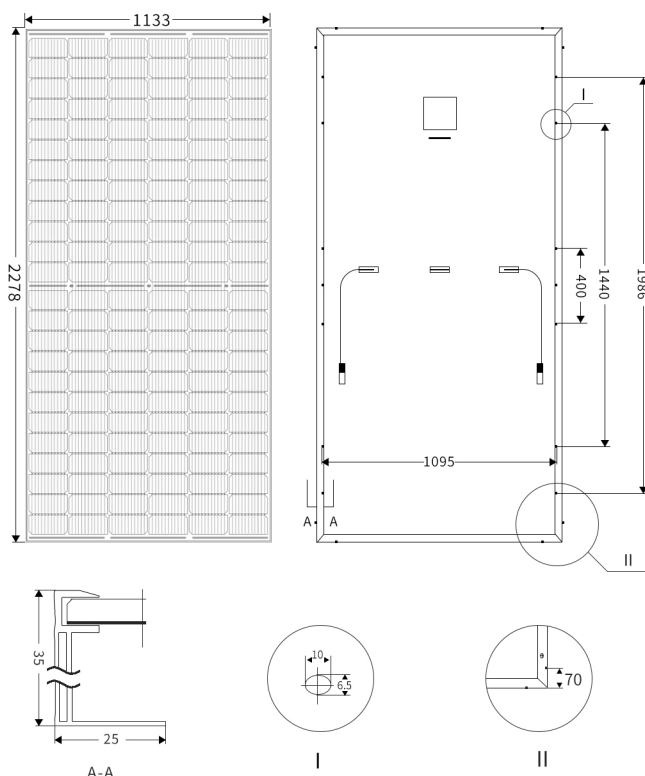


| Module Type | | HTS-144M10H530 | | HTS-144M10H535 | | HTS-144M10H540 | | HTS-144M10H545 | | HTS-144M10H550 | |
|-----------------------|--------------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|
| Test Environment | | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power | $P_{MAX}(W)$ | 530 | 394.44 | 535 | 398.16 | 540 | 401.88 | 545 | 405.61 | 550 | 409.33 |
| Maximum Power Voltage | $V_{MPP}(V)$ | 40.47 | 37.65 | 40.6 | 37.77 | 40.73 | 37.89 | 40.86 | 38.02 | 40.99 | 38.14 |
| Maximum Power Current | $I_{MPP}(A)$ | 13.1 | 10.48 | 13.18 | 10.54 | 13.26 | 10.6 | 13.34 | 10.67 | 13.42 | 10.73 |
| Open Circuit Voltage | $V_{OC}(V)$ | 49.02 | 46.27 | 49.18 | 46.43 | 49.34 | 46.58 | 49.5 | 46.73 | 49.65 | 46.87 |
| Short Circuit Current | $I_{SC}(A)$ | 13.79 | 11.14 | 13.87 | 11.2 | 13.96 | 11.27 | 14.04 | 11.34 | 14.13 | 11.41 |
| Tolerance | (W) | 0 - +5 | | 0 - +5 | | 0 - +5 | | 0 - +5 | | 0 - +5 | |
| Module Efficiency | (%) | 20.5 | | 20.7 | | 20.9 | | 21.1 | | 21.3 | |

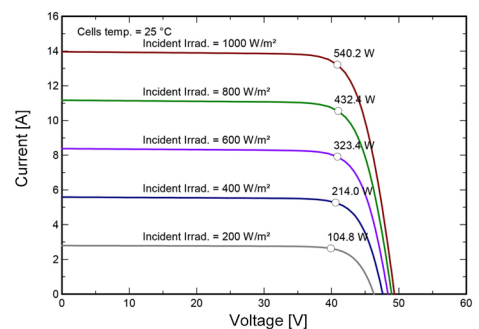
STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
 Average efficiency reduction of 4.5% at 200W/m² according to EN 60904-1
 NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

| MECHANICAL DATA | | TEMPERATURE RATINGS | |
|------------------------------|--|--|--------------|
| Solar Cells | MBB Mono PERC 182 x 91mm | Nominal Operating Cell Temperature(NOCT) | 45±2°C |
| Cell Orientation | 144 cells (6 x 24) | Temperature Coefficient of P_{MAX} | -0.348%/°C |
| Module Dimensions | 2278 x 1133 x 35mm | Temperature Coefficient of V_{OC} | -0.282%/°C |
| Weight | 28kg | Temperature Coefficient of I_{SC} | +0.05%/°C |
| Glass | High Transparency, Anti-Reflective, AR Coated and Heat Tempered Solar Glass -3.2mm | MAXIMUM RATING | |
| Backsheet | White | Operational Temperature | -40 to +85°C |
| Frame | Silver Anodized Aluminium Alloy (Black Available) | Maximum System Voltage | 1500V DC |
| J-Box | IP 68 rated | Max Series Fuse Rating | 25A |
| Cables | Photovoltaic Technology cable 4.0mm ² , 350mm | Mechanical Load | 5400pa |
| Connector | EVO2 or EVO2 Compatible | Wind Load | 2400pa |
| PACKING CONFIGURATION | Modules per box: 31 pieces | Modules per 40' container: 620 pieces | |

DIMENSIONS OF PV MODULE



I-V CURVES OF PV MODULE (540W)



P-V CURVES OF PV MODULE (540W)

