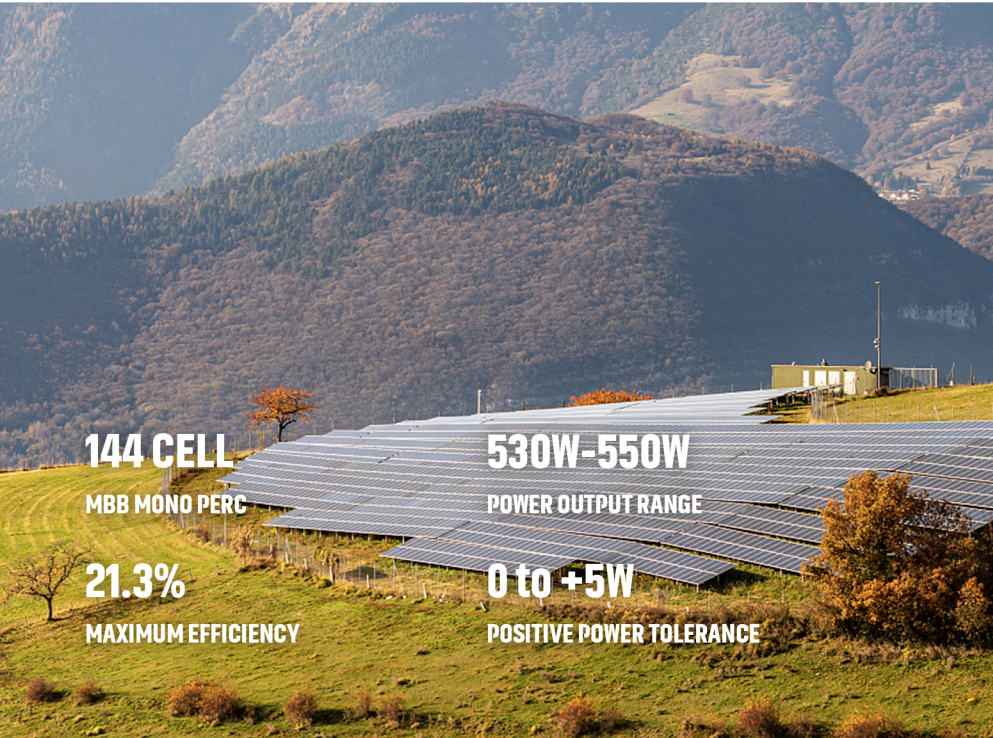


GERMAN BRAND SOLAR PANEL
M10 HALF CELL MONO

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

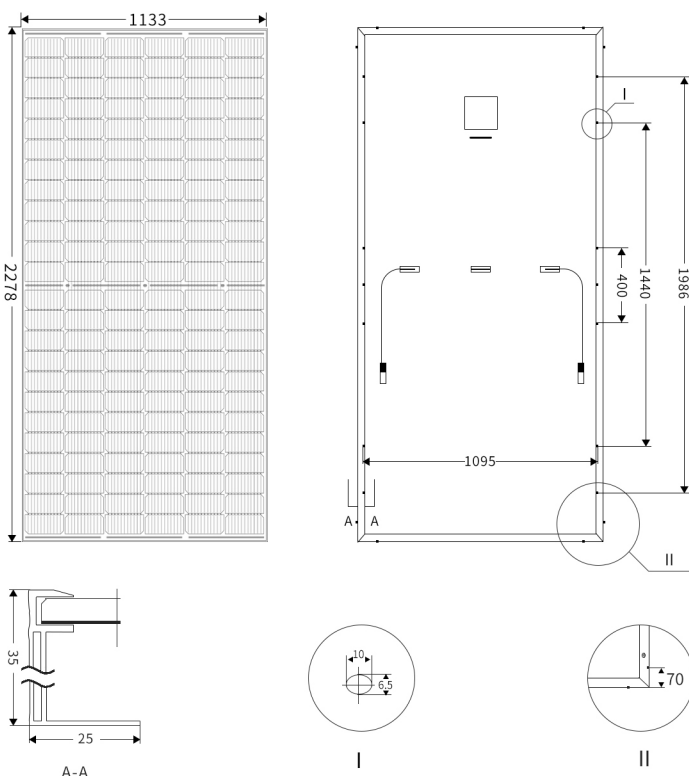
Optimize the property of power generating and reliability of the system

Module Type		HTS-144M10H530		HTS-144M10H535		HTS-144M10H540		HTS-144M10H545		HTS-144M10H550	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
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
PACKAGING CONFIGURATION		Modules per box: 31 pieces	
		Modules per 40' container: 620 pieces	

DIMENSIONS OF PV MODULE



LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty

30 Year Linear Power Warranty

