

560W

M10 HALF CELL MONO

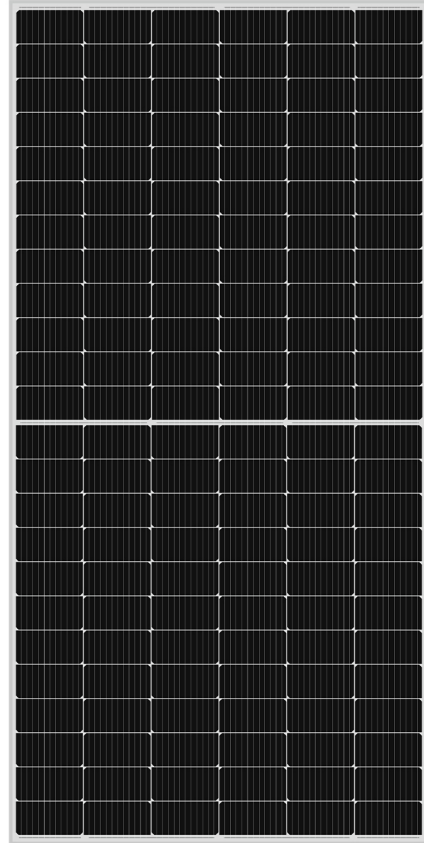
GERMAN BRAND SOLAR PANEL

540W-560W
POWER OUTPUT RANGE

144 CELL
MBB MONO PERC

21.68%
MAXIMUM EFFICIENCY

0 to +5W
POSITIVE POWER TOLERANCE



Product
Warranty



Output
Warranty



Higher Efficiency



Lower LID



German Technology



Sand Resistant



Environmentally Friendly



Stable Performance



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

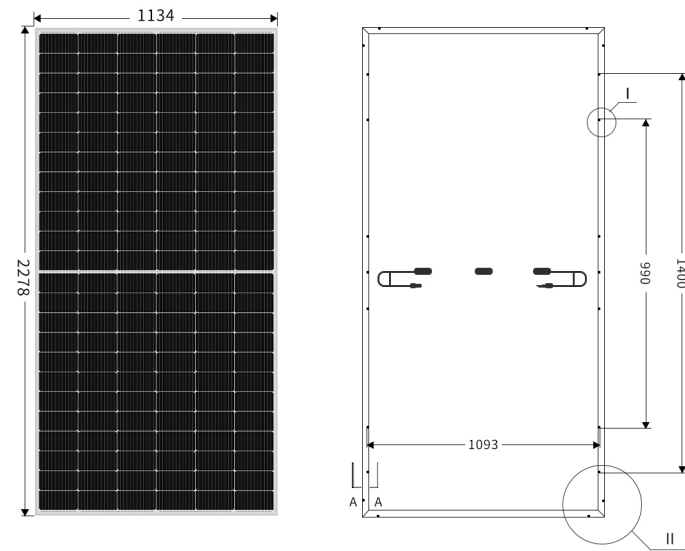
Effectively reduce the risk of heat spot on high efficiency



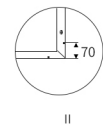
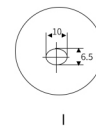
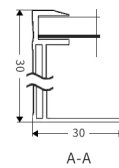
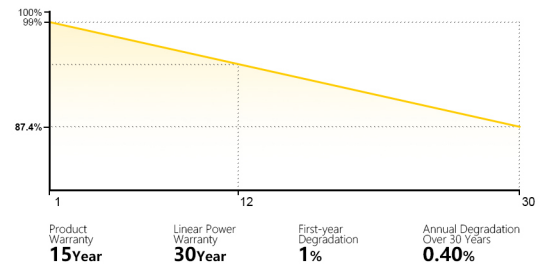
Stronger the physical property

Optimize the property of power generating and reliability of the system

DIMENSIONS OF PV MODULE



LINEAR PERFORMANCE WARRANTY



MECHANICAL DATA

Solar Cells	Mono PERC
Cell Orientation	144 (6 x 24)
Module Dimensions	2278 x 1134 x 30mm
Weight	27kg
Glass	Anti-Reflective, AR Coated and Heat Tempered Solar Glass-3.2mm
Backsheet	White
Frame	Anodized Aluminium Alloy
J-Box	IP 68 Rated
Cables	4.0mm ² , 350mm or Customized Length
Connector	MC4 Compatible

PACKAGE Modules per Pallet:37 pieces Modules per 40'HQ Container:740 pieces

TEMPERATURE RATINGS

Nominal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient of P _{MAX}	-0.35%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	+0.048%/°C

MAXIMUM RATINGS

Operational Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC
Max Series Fuse Rating	25A
Mechanical Load	5400pa
Wind Load	2400pa

MODULE TYPE

		HTS-144M10H540		HTS-144M10H545		HTS-144M10H550		HTS-144M10H555		HTS-144M10H560	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Environment											
Maximum Power	P _{MAX} (W)	540	401.88	545	405.61	550	409.33	555	413.03	560	416.77
Maximum Power Voltage	V _{MPP} (V)	40.73	37.89	40.86	38.02	40.99	38.14	41.12	38.26	41.25	38.38
Maximum Power Current	I _{MPP} (A)	13.26	10.6	13.34	10.67	13.42	10.73	13.5	10.79	13.58	10.85
Open Circuit Voltage	V _{OC} (V)	49.34	46.58	49.5	46.73	49.65	46.87	49.8	47.01	49.95	47.15
Short Circuit Current	I _{SC} (A)	13.96	11.27	14.04	11.34	14.13	11.41	14.22	11.48	14.31	11.55
Tolerance	(W)	0 ± 5		0 ± 5		0 ± 5		0 ± 5		0 ± 5	
Module Efficiency	(%)	20.9		21.10		21.29		21.48		21.68	

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.