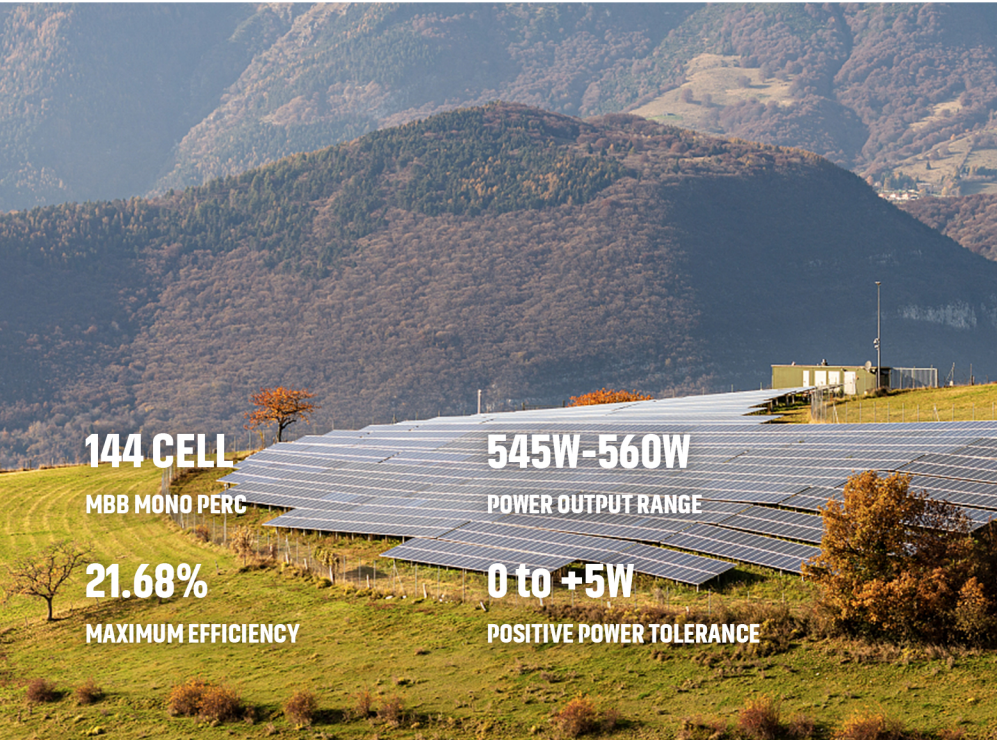
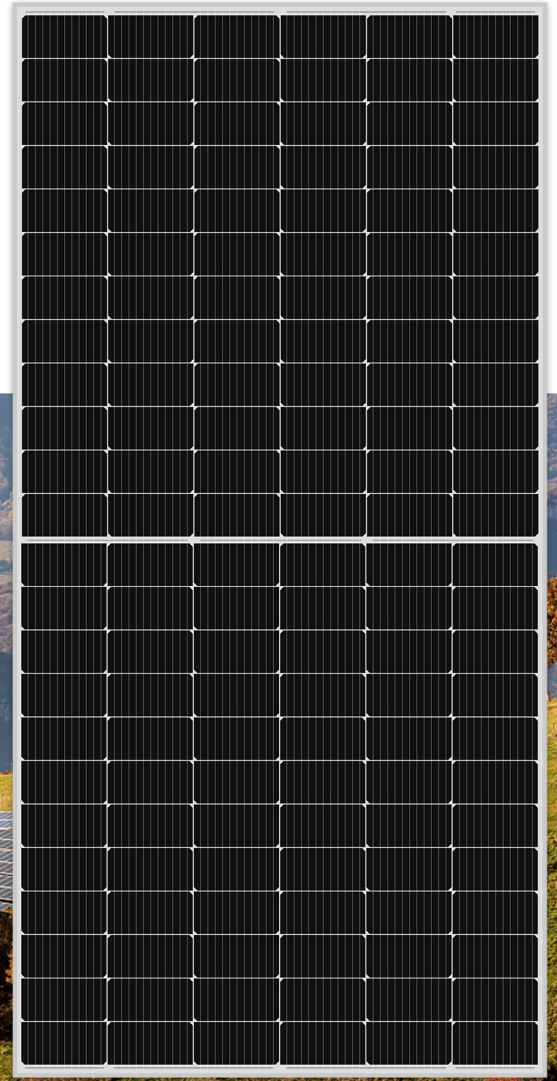


GERMAN BRAND SOLAR PANEL  
M10 HALF CELL MONO

# 560W



**144 CELL**  
MBB MONO PERC

**21.68%**  
MAXIMUM EFFICIENCY

**545W-560W**  
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-144M10H545		HTS-144M10H550		HTS-144M10H555		HTS-144M10H560	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	545	405.61	550	409.33	555	413.03	560	416.77
Maximum Power Voltage	$V_{MPP}(V)$	40.86	38.02	40.99	38.14	41.12	38.26	41.25	38.38
Maximum Power Current	$I_{MPP}(A)$	13.34	10.67	13.42	10.73	13.5	10.79	13.58	10.85
Open Circuit Voltage	$V_{oc}(V)$	49.5	46.73	49.65	46.87	49.8	47.01	49.95	47.15
Short Circuit Current	$I_{sc}(A)$	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	
Module Efficiency	(%)	21.10		21.29		21.48		21.68	

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.  
Average efficiency reduction of 4.5% at 200W/m<sup>2</sup> according to EN 60904-1  
NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

**MECHANICAL DATA**

Solar Cells	Mono PERC
Cell Orientation	144 cells (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 <sup>2</sup> , 350mm or Customized Length
Connector	MC4 Compatible

**TEMPERATURE RATINGS**

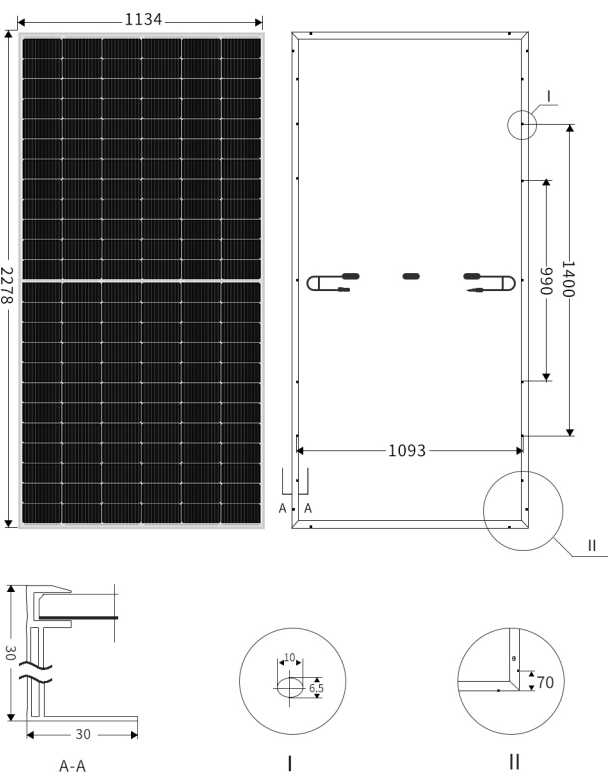
Nominal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient of $P_{MAX}$	-0.35%/°C
Temperature Coefficient of $V_{oc}$	-0.28%/°C
Temperature Coefficient of $I_{sc}$	+0.048%/°C

**MAXIMUM RATINGS**

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

<b>PACKAGE</b>	Modules per box: 36 pieces	Modules per 40' container: 720 pieces
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**DIMENSIONS OF PV MODULE**



**LINEAR PERFORMANCE WARRANTY**

15 Year Product Warranty

30 Year Linear Power Warranty

