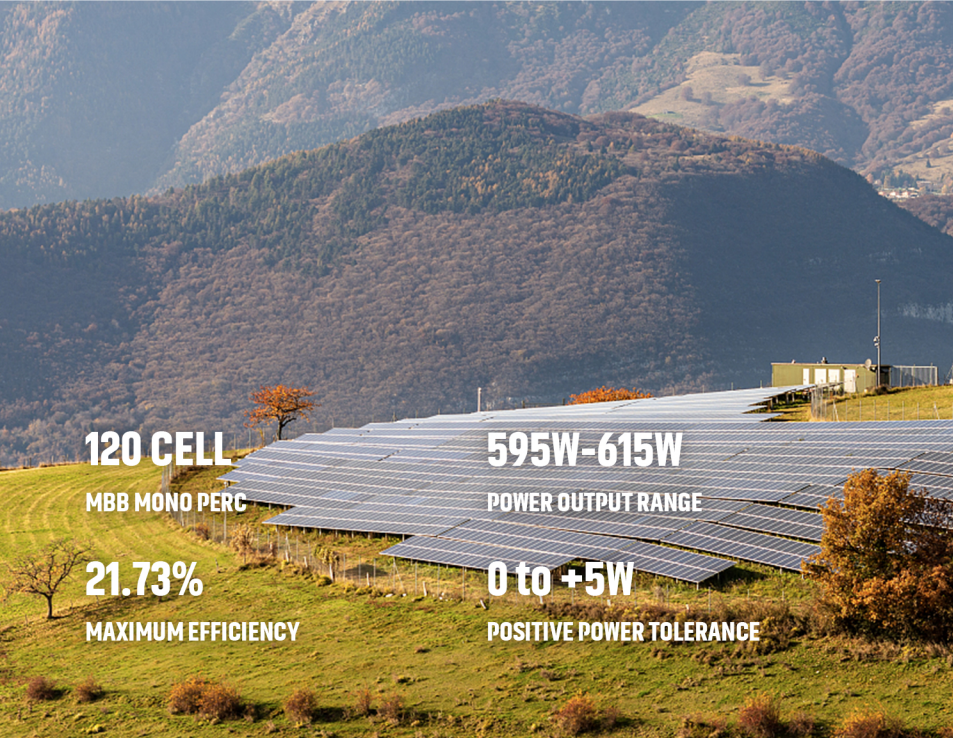
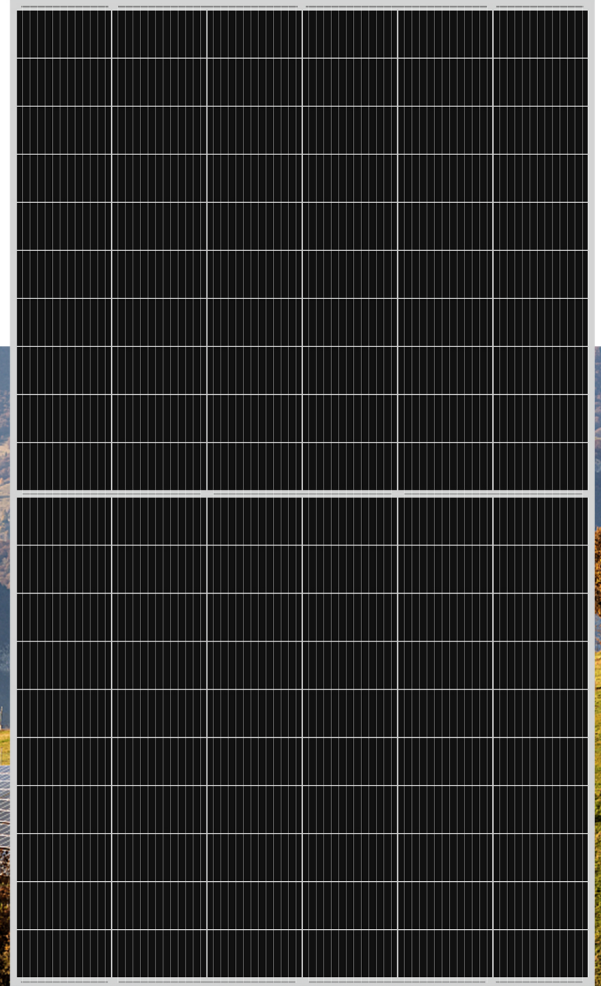


GERMAN BRAND SOLAR PANEL
G12 HALF CELL MONO

615W



120 CELL
MBB MONO PERC

21.73%
MAXIMUM EFFICIENCY

595W-615W
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-120G12H595		HTS-120G12H600		HTS-120G12H605		HTS-120G12H610		HTS-120G12H615	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	595	451	600	454	605	458	610	462	615	466
Maximum Power Voltage	$V_{MPP}(V)$	34.2	31.90	34.4	32.00	34.6	32.20	34.8	32.4	35	32.6
Maximum Power Current	$I_{MPP}(A)$	17.40	14.13	17.44	14.18	17.49	14.22	17.54	14.26	17.59	14.3
Open Circuit Voltage	$V_{oc}(V)$	41.30	38.90	41.50	39.10	41.70	39.30	41.9	39.5	42.1	39.7
Short Circuit Current	$I_{sc}(A)$	18.47	14.88	18.52	14.92	18.57	14.96	18.62	15	18.67	15.04
Tolerance	(W)	0 - +5		0 - +5		0 - +5		0 - +5		0 - +5	
Module Efficiency	(%)	21.02		21.20		21.38		21.55		21.73	

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

Solar Cells	Mono PERC	
Cell Orientation	120 (6 x 20)	
Module Dimensions	2172 x 1303 x 35mm	
Weight	30.9kg	
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 box: 31 pieces	Modules per 40' container: 558 pieces

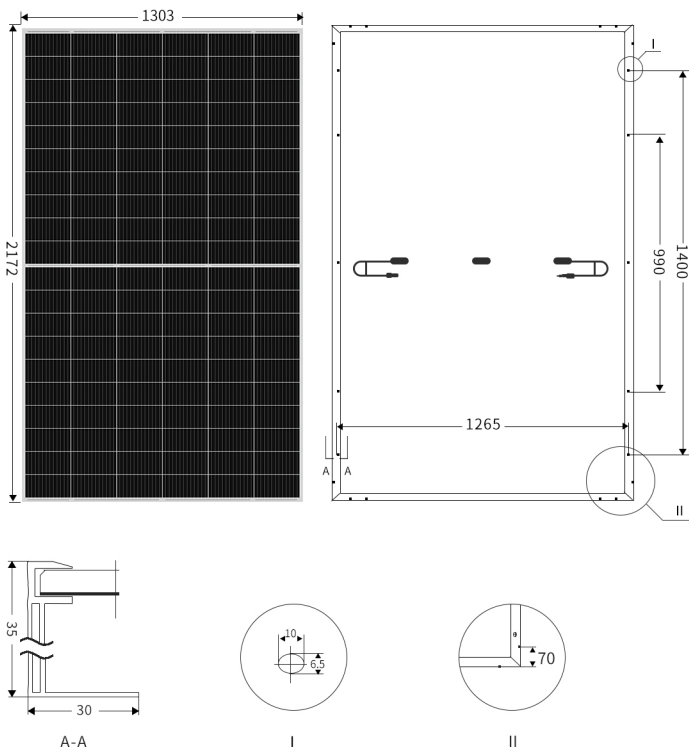
TEMPERATURE RATINGS

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	30A
Mechanical Load	5400pa
Wind Load	2400pa

DIMENSIONS OF PV MODULE



LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

30 Year Linear Power Warranty

