

GERMAN BRAND SOLAR PANEL  
**G12 MONO**

**405W**

**80 CELL**  
MBB MONO PERC

**385W-405W**  
POWER OUTPUT RANGE

**21.00%**  
MAXIMUM EFFICIENCY

**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**

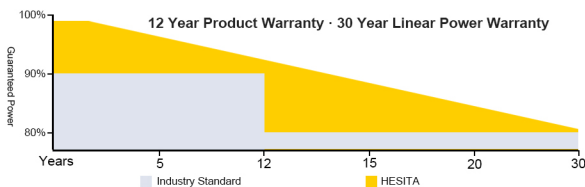
Effectively reduce the risk of heat spot on high efficiency



**Stronger the physical property**

Optimize the property of power generating and reliability of the system

**LINEAR PERFORMANCE WARRANTY**

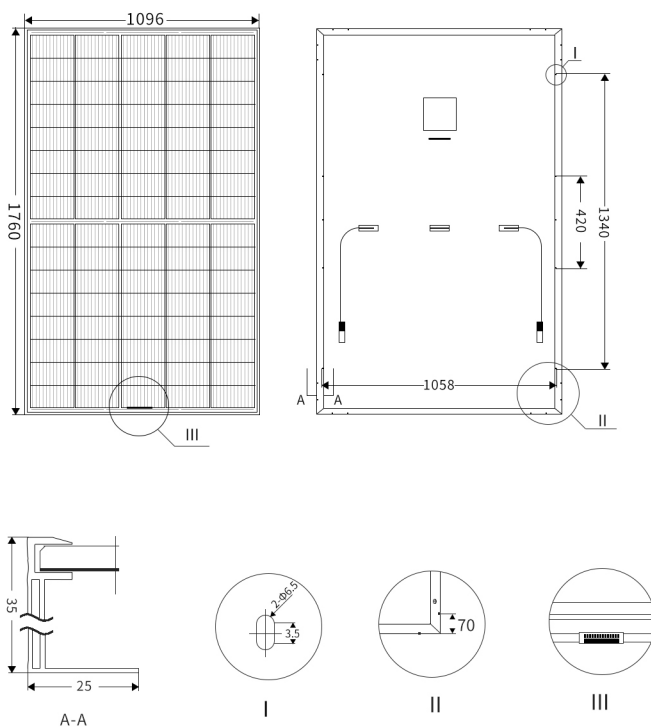


Module Type		HTS-80M12H385		HTS-80M12H390		HTS-80M12H395		HTS-80M12H400		HTS-80M12H405	
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	385	291.45	390	295.24	395	299.02	400	302.81	405	306.6
Maximum Power Voltage	$V_{MPP}(V)$	23.79	22.14	24.00	22.34	24.21	22.53	24.42	22.73	24.63	22.92
Maximum Power Current	$I_{MPP}(A)$	16.19	13.16	16.26	13.22	16.32	13.27	16.39	13.33	16.45	13.37
Open Circuit Voltage	$V_{oc}(V)$	28.67	27.02	28.92	27.26	29.18	27.50	29.43	27.74	29.68	27.98
Short Circuit Current	$I_{sc}(A)$	17.19	13.85	17.26	13.91	17.33	13.96	17.40	14.02	17.47	14.07
Tolerance	(W)	0 - +5		0 - +5		0 - +5		0 - +5		0 - +5	
Module Efficiency	(%)	19.96		20.22		20.48		20.74		21.00	

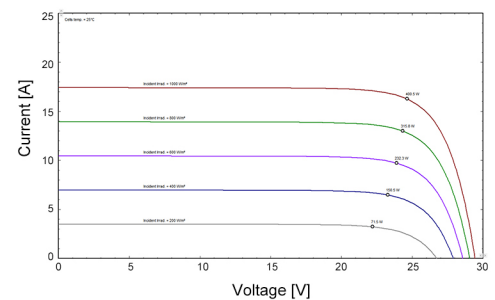
STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.  
 Average efficiency reduction of 4.5% at 200W/m<sup>2</sup> according to EN 60904-1  
 NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA		TEMPERATURE RATINGS	
Solar Cells	MBB MONO PERC 210x105mm	Nominal Operating Cell Temperature(NOCT)	43±2°C
Cell Orientation	80 cells (5 x 16)	Temperature Coefficient of $P_{MAX}$	-0.362%/°C
Module Dimensions	1760 x 1096 x 35mm	Temperature Coefficient of $V_{oc}$	-0.262%/°C
Weight	21.5kg	Temperature Coefficient of $I_{sc}$	+0.042%/°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	30A
Cables	Photovoltaic Technology cable 4.0mm <sup>2</sup> , 350mm	Mechanical Load	5400pa
Connector	EVO2 or EVO2 Compatible	Wind Load	2400pa
PACKING CONFIGURATION		Modules per box: 31 pieces	
		Modules per 40' container: 806 pieces	

**DIMENSIONS OF PV MODULE**



**I-V CURVES OF PV MODULE (400W)**



**P-V CURVES OF PV MODULE (400W)**

