

# G12 HALF CELL MONO

## 400W-410W

### 120 CELL

G12 MBB MONO PERC

### 400W-410W

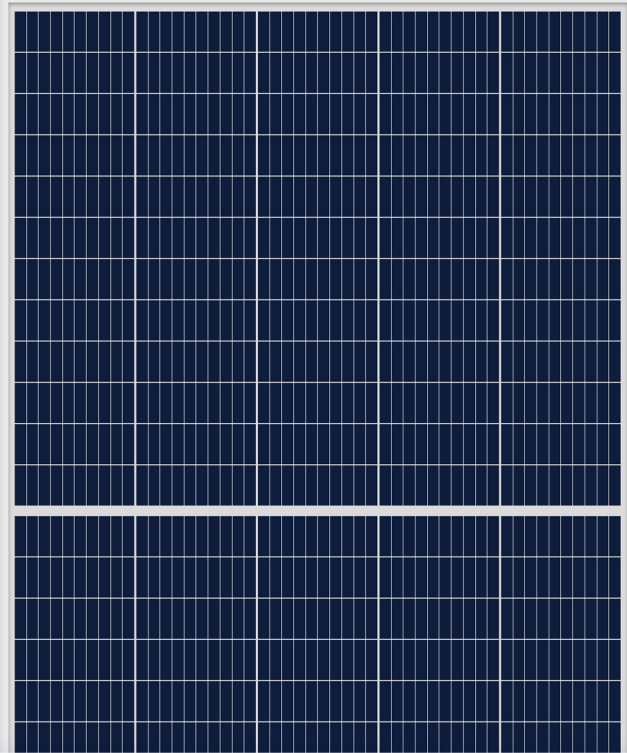
POWER OUTPUT RANGE

### 21%

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

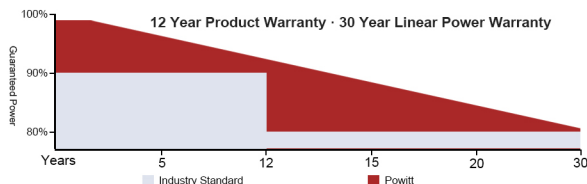
Effectively reduce the risk of heat spot on high efficiency



#### Stronger the physical property

Optimize the property of power generating and reliability of the system

### LINEAR PERFORMANCE WARRANTY



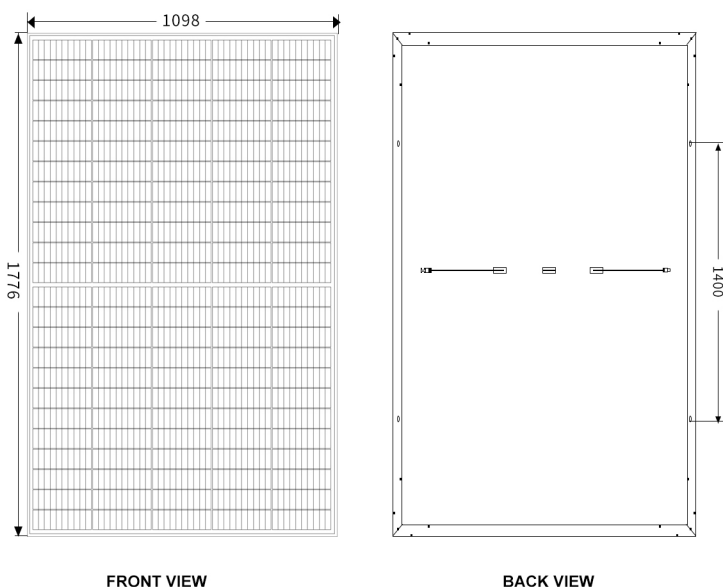
Module Type		PW-60M400HG12		PW-60M405HG12		PW-60M410HG12	
		STC	NOCT	STC	NOCT	STC	NOCT
Test Environment		STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power	$P_{MAX}(W)$	400	302	405	306	410	310
Maximum Power Voltage	$V_{MPP}(V)$	34.20	32.20	34.40	32.50	34.60	32.80
Maximum Power Current	$I_{MPP}(A)$	11.70	9.38	11.77	9.41	11.85	9.45
Open Circuit Voltage	$V_{oc}(V)$	41.20	38.80	41.40	38.90	41.60	39.20
Short Circuit Current	$I_{sc}(A)$	12.28	9.90	12.34	9.95	12.51	9.98
Tolerance	(W)	0 - +5		0 - +5		0 - +5	
Module Efficiency	(%)	20.5		20.8		21	

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

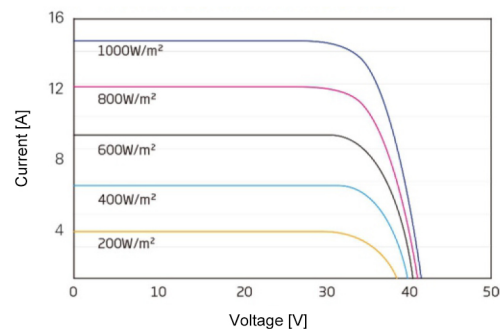
Average efficiency reduction of 4.5% at 200W/m<sup>2</sup> according to EN 60904-1

NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

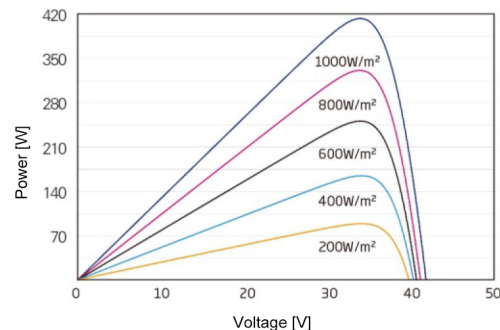
**DIMENSIONS OF PV MODULE**



**I-V CURVES OF PV MODULE(410W)**



**P-V CURVES OF PV MODULE(410W)**



MECHANICAL DATA		TEMPERATURE RATINGS	
Solar Cells	MBB-210x70mm(Mono-Crystalline Silicon)	Nominal Operating Cell Temperature(NOCT)	43±2°C
Cell Orientation	120 cells (5x24)	Temperature Coefficient of $P_{MAX}$	-0.34%/°C
Module Dimensions	1776 x 1098 x 35mm	Temperature Coefficient of $V_{oc}$	-0.25%/°C
Weight	21.0kg	Temperature Coefficient of $I_{sc}$	+0.04%/°C
Glass	3.2mm (0.13inches), High Transmission, AR Coated Heat Strengthened Glass	MAXIMUM RATING	
Backsheet	White	Operational Temperature	-40 to +85°C
Frame	35mm Anodized Aluminium Alloy	Maximum System Voltage	1500V DC
J-Box	IP 68 rated	Max Series Fuse Rating	30A
Cables	Photovoltaic Technology cable 4.0mm <sup>2</sup>	Mechanical Load	5400pa
Connector	MC4EV02/TS4*	Wind Load	2400pa
<b>PACKING CONFIGURATION</b>	Modules per box: 31 pieces	Modules per 40' container: 806 pieces	

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