

# JHM5/60GD 440-460Wp

PERC Bifacial Dual Glass Module



## Half-cut And MBB Technology

Half-cut cells combined with MBB provides ultra-high power output



## Higher Bifacial Rate

Bifacial technology enables additional energy harvesting from rear side



## Withstanding Harsh Environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

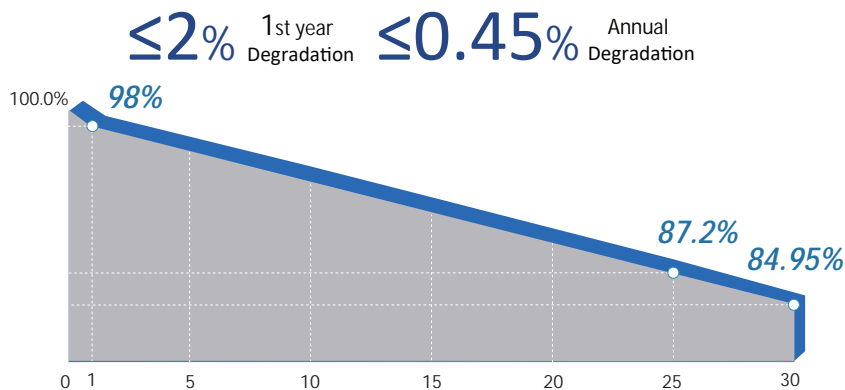


## PID Resistance

According to IEC TS 62804-1



## Linear Performance Warranty



**12** Years Product Warranty

**30** Years Linear Power Warranty



IEC61215 IEC61730  
 ISO9001 Quality Management System Certification  
 ISO14001 Environment System Certification  
 ISO45001 Occupational Health and Safety Management System Certification

**ELECTRICAL CHARACTERISTICS**

Module Type	JHM5/60GD440		JHM5/60GD445		JHM5/60GD450		JHM5/60GD455		JHM5/60GD460	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power (Pmax) (W)	440	294	445	298	450	301	455	304	460	308
Maximum Power Voltage (Vmp) (V)	34.2	28.7	34.4	28.9	34.6	29.1	34.8	29.2	35.0	29.4
Maximum Power Current (Imp) (A)	12.87	10.24	12.94	10.30	13.01	10.36	13.07	10.42	13.14	10.47
Open-circuit Voltage (Voc) (V)	41.2	35.1	41.4	35.3	41.6	35.4	41.8	35.6	42.0	35.8
Short-circuit Current (Isc) (A)	13.79	11.15	13.86	11.21	13.93	11.26	14.00	11.32	14.07	11.38
Module Efficiency	20.33%		20.56%		20.79%		21.02%		21.25%	

\*STC (Standard Test Condition): Irradiance 1000W/ m<sup>2</sup>, Cell Temperature 25°C, AM 1.5

\*NMOT(Under Nominal Module Operating Temperature): Irradiance of 800W/ m<sup>2</sup>, Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

**Rearside Power Gain** (Reference to JHM5/60GD450)

Rearside Power gain	5%	10%	15%	20%	25%
Peak Power (Pmax) (W)	473	495	518	648	675
Maximum Power Voltage (Vmp) (V)	34.6	34.6	34.6	34.7	34.7
Maximum Power Current (Imp) (A)	13.66	14.31	14.96	15.56	16.21
Open-circuit Voltage(Voc) (V)	41.6	41.6	41.6	41.7	41.7
Short-circuit Current (Isc) (A)	14.62	15.32	16.01	16.67	17.36

**MECHANICAL CHARACTERISTICS**

Cell Type	PERC Mono-Crystalline
Cell Arrangement	120pcs (2×(6×10))
Dimension (L×W×H)	1909×1134×30mm
Weight	26.6kg
Front Cover	2.0mm +2.0mm Half Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable	4mm <sup>2</sup> /400mm(+)&200mm(-)
Connector	MC4 Compatible
Snow/Wind Load	5400Pa/2400Pa

**OPERATING PARAMETERS**

Power tolerance	0~+5W
Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30 A
Protection Class	Class II
Bifaciality	70±5%

**TEMPERATURE CHARACTERISTICS**

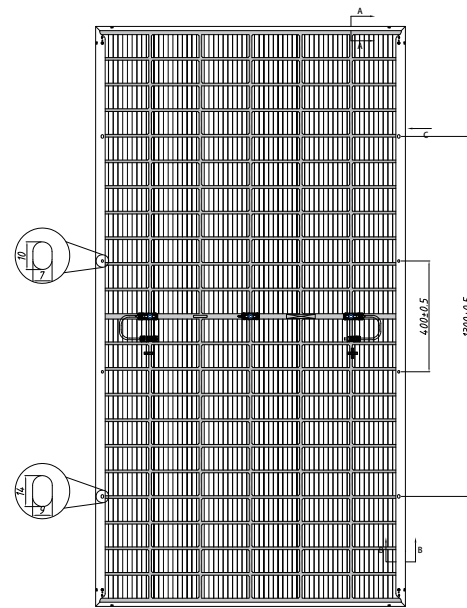
Temperature coefficient of Pmax	-0.34%
Temperature coefficient of Voc	-0.26%
Temperature coefficient of Isc	0.04%
NMOT	44±2°C

**PACKING MANNER**

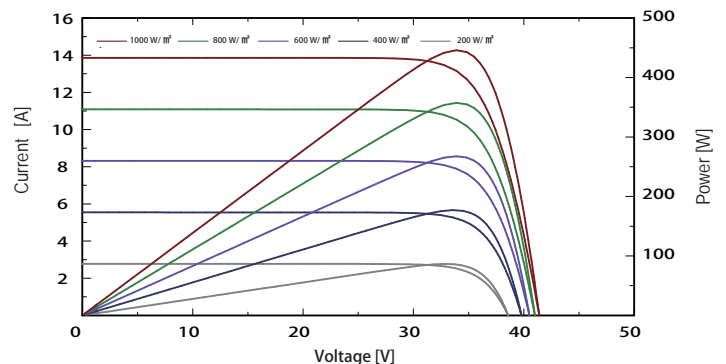
Packing Type	40HQ
Piece/Pallet	36
Pallet/Container	24
Piece/Container	864

**Engineering Design**

\*Unit:mm



**I-V/P-V Curve at Different Irradance (450W)**



\*Power measurement tolerance: ±3%

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