

Blue Shark Series

JHM4/72GD



JingHua Energy High Efficiency Monocrystalline
Double Glass Module Half-cut Cell Solar Module

No. of cells Power Output Range
144 CELL **440-465W**

Maximum System Voltage Maximum Efficiency
1500V **21.05%**



High Output Power

The use of high quality cell and half-cell PERC technology enables modules up to 465W



High Reliability

Products through a variety of harsh environmental testing



Lower Temperature Coefficients

Enhance power generation



Reduce Shadow Loss

Effectively reduces the effect of shadow on the module surface



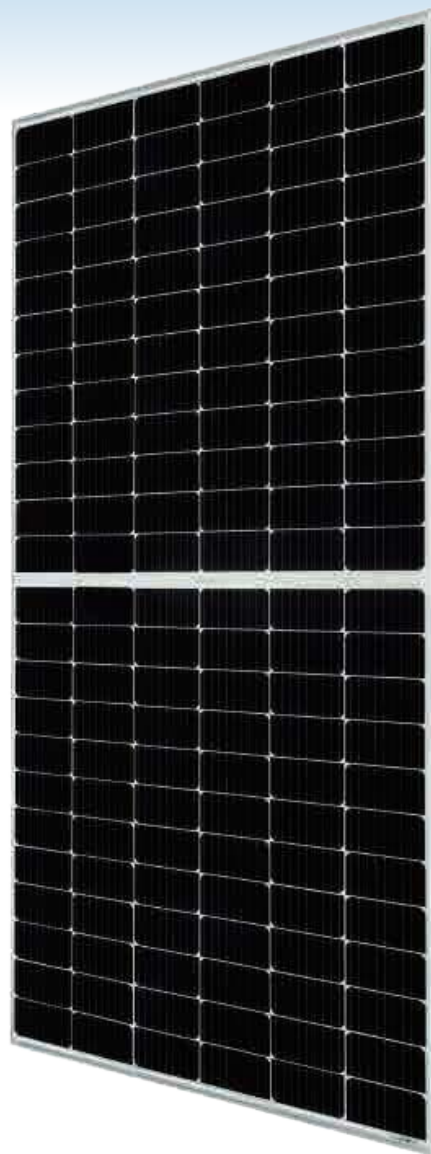
Better Micro Crack Resistance

Minimize the impact by micro crack by limiting cell damage and potentially extending area

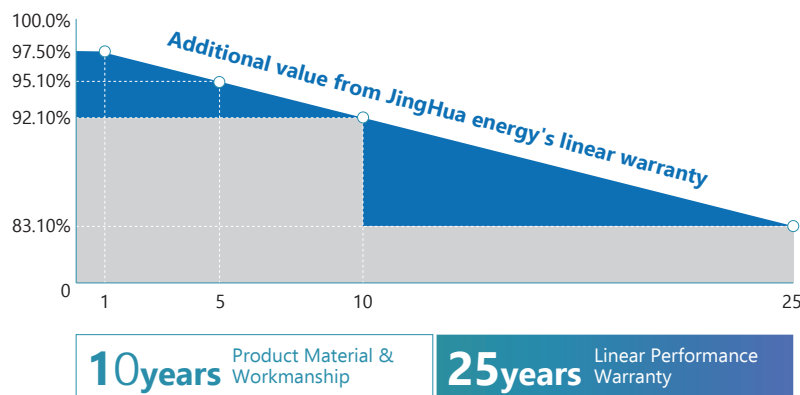


Excellent Anti-PID Performance

2 times of industry standard Anti-PID test by TUV
(85°C/85%RH , 192h)



LINEAR PERFORMANCE WARRANTY



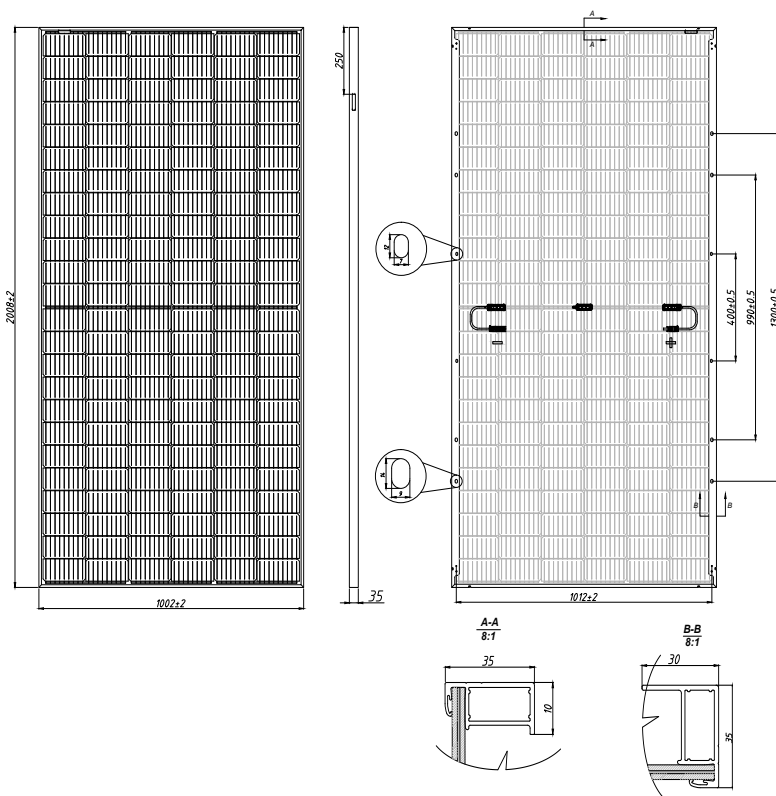
Comprehensive Products And System Certificates



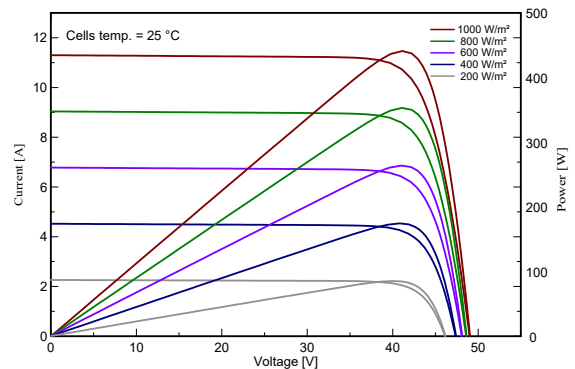
Swiss Re

IEC61215/61730:2016
IEC62804(PID free)
IEC62716(Ammonia)
IEC61701(Salt fog)
ISO9001/14001/45001

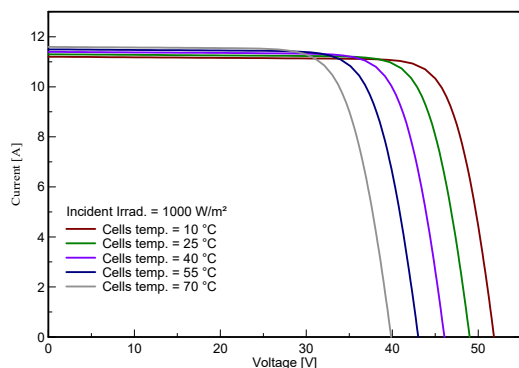
Module Dimension[mm]



I-V Curve at Different Irradance (450W)



I-V Curve at Different Working Temperature (450W)



ELECTRICAL DATA

Module Type	JHM4/72GD440		JHM4/72GD445		JHM4/72GD450		JHM4/72GD455		JHM4/72GD460		JHM4/72GD465	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power (Pmax) (W)	440	330	445	334	450	337	455	341	460	345	465	349
Maximum Power Voltage (Vmp) (V)	40.8	38.0	41.1	38.3	41.4	38.6	41.7	38.9	42.0	39.2	42.3	39.5
Maximum Power Current (Imp) (A)	10.78	8.67	10.83	8.71	10.87	8.74	10.91	8.78	10.95	8.80	10.99	8.84
Open-circuit Voltage (Voc) (V)	48.9	46.3	49.2	46.6	49.5	46.9	49.7	47.1	49.9	47.4	50.1	47.7
Short-circuit Current (Isc) (A)	11.30	9.13	11.36	9.18	11.42	9.23	11.48	9.28	11.53	9.33	11.58	9.38
Module Efficiency	19.92%		20.14%		20.37%		20.60%		20.82%		21.05%	
Operating Temperature	-40°C~+85°C											
Maximum System Voltage	1500V											
Maximum Series Fuse Rating	20A											
Protection Class	Class II											
Power tolerance	0~+5W											

*STC (Standard Test Condition): Irradiance 1000W/ m², Module Temperature 25°C, AM 1.5

*NMOT(Under Nominal Module Operating Temperature), Irradiance of 800W/ m², Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

MECHANICAL DATA

Cell Type	Mono-Crystalline
Cell Arrangement	144pcs (2×(6×12))
Dimension (L×W×H)	2108×1048×35mm
Weight	27.3kg
Front Cover	2.0mm +2.0mm Half Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable	4mm²/300mm
Connector	Staubli EVO2 or MC4 Compatible
Snow/Wind Load	5400Pa/2400Pa

*JingHua reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

*Power measurement tolerance: ±3%

TEMPERATURE CHARACTERISTICS

Temperature coefficient of Pmax	-0.38%
Temperature coefficient of Voc	-0.30%
Temperature coefficient of Isc	0.06%
NMOT	44±2°C

PACKING MANNER

Packing Type	40HQ
Piece/Pallet	30
Pallet/Container	22
Piece/Container	660