

410W MBB Half-Cell Black Module

JAM72S17 390-410/GR Series

Introduction

Assembled with multi-busbar PERC cells and gapless ribbon connection technology, the modules can offer higher output power with improved module efficiency, the reduction of cells gaps brings outstanding module appearance. The half-cell configurature makes less shading effect, lower risk of hot spot, as well as more reliable and stable power generation.



Higher output power



Lower LCOE



Less shading and lower resistive loss

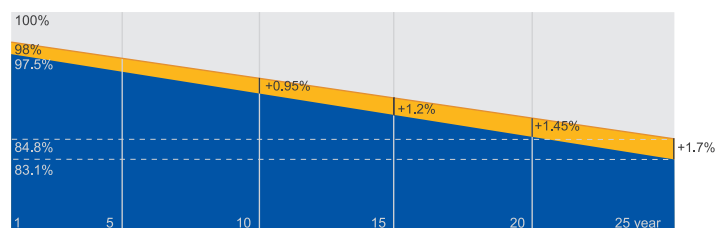


Better mechanical loading tolerance

Superior Warranty

- 15-year product warranty
- 25-year linear power output warranty

0.55% Annual Degradation
Over 25 years



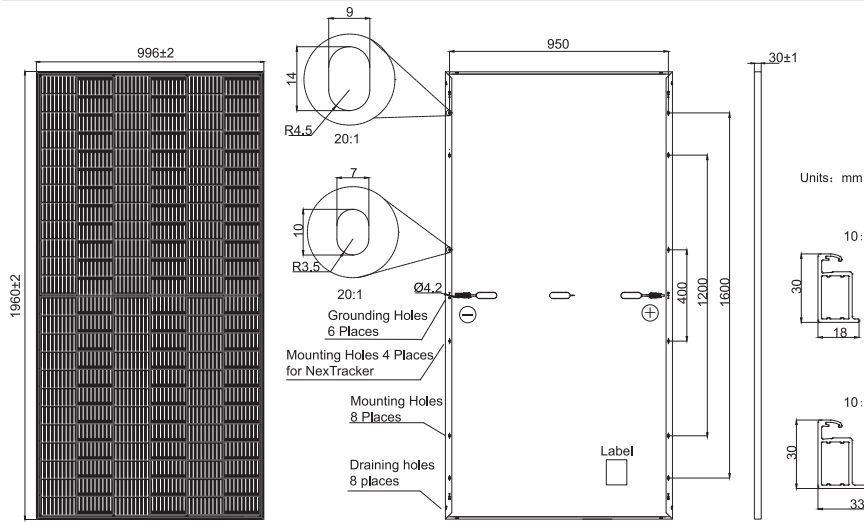
■ New linear power warranty ■ Standard module linear power warranty

Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	19.0kg±3%
Dimensions	1960±2mm×996±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC), 12AWG(UL)
No. of cells	144 (6×24)
Junction Box	IP68, 3 diodes
Connector	MC4(1000V) MC4-EVO2(1500V)
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-)
Front Glass	2.8mm
Packaging Configuration	36pcs/pallet 864pcs/40HQ Container

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S17 -390/GR	JAM72S17 -395/GR	JAM72S17 -400/GR	JAM72S17 -405/GR	JAM72S17 -410/GR
Rated Maximum Power(Pmax) [W]	390	395	400	405	410
Open Circuit Voltage(Voc) [V]	49.01	49.30	49.58	49.86	50.12
Maximum Power Voltage(Vmp) [V]	40.71	41.02	41.33	41.60	41.88
Short Circuit Current(Isc) [A]	10.23	10.28	10.33	10.39	10.45
Maximum Power Current(Imp) [A]	9.58	9.63	9.68	9.74	9.79
Module Efficiency [%]	20.0	20.2	20.5	20.7	21.0
Power Tolerance	0~+5W				
Temperature Coefficient of Isc(α _{Isc})	+0.044%/°C				
Temperature Coefficient of Voc(β _{Voc})	-0.272%/°C				
Temperature Coefficient of Pmax(γ _{Pmp})	-0.350%/°C				
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G				

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

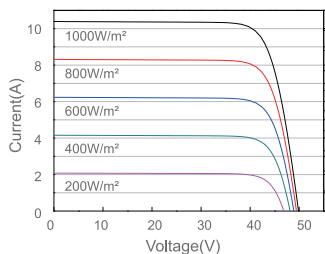
ELECTRICAL PARAMETERS AT NOCT

OPERATING CONDITIONS

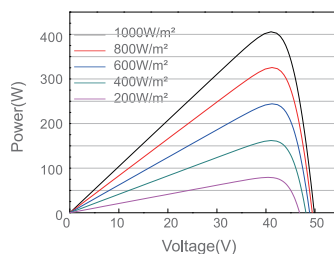
TYPE	JAM72S17 -390/GR	JAM72S17 -395/GR	JAM72S17 -400/GR	JAM72S17 -405/GR	JAM72S17 -410/GR	
Rated Max Power(Pmax) [W]	294	298	302	306	310	Maximum System Voltage 1000V/1500V DC(IEC)
Open Circuit Voltage(Voc) [V]	45.90	46.15	46.41	46.66	46.91	Operating Temperature -40°C~+85°C
Max Power Voltage(Vmp) [V]	38.15	38.40	38.65	38.90	39.16	Maximum Series Fuse 20A
Short Circuit Current(Isc) [A]	8.15	8.20	8.25	8.31	8.36	Maximum Static Load, Front Maximum Static Load, Back 5400Pa(112 lb/ft ²) 2400Pa(50 lb/ft ²)
Max Power Current(Imp) [A]	7.71	7.76	7.81	7.87	7.92	NOCT 45±2°C
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					Safety Class Class II
						Fire Performance UL Type 1

CHARACTERISTICS

Current-Voltage Curve JAM72S17-405/GR



Power-Voltage Curve JAM72S17-405/GR



Current-Voltage Curve JAM72S17-405/GR

