



# JHPVTECH

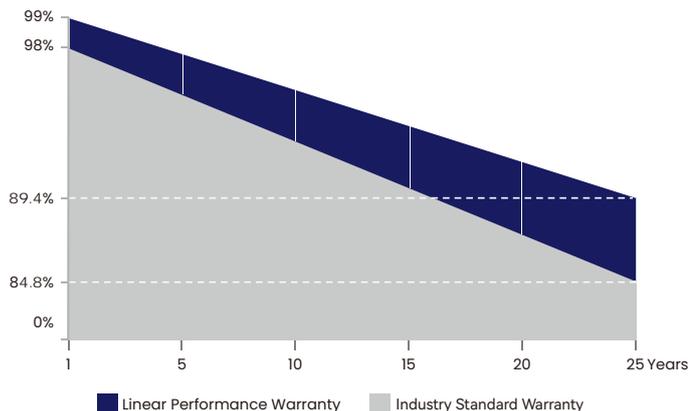
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## JH-G12DS132C 650~670W

**21.57% Efficiency**

650~670W (210x210 mm Half-Cut Cell) 132 pcs

P-TYPE bifacial Silver Frame



**15** Years  
Material & Craft  
Quality  
Assurance

**30** Years  
84.8% Output  
Power  
Guarantee

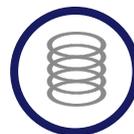
### KEY FEATURES HIGHLIGHTS



Mono MBB half cut  
Original European Parts



EU Standard  
European Quality  
Control



PID Resistance  
High stability and torsion  
free with Wave Shape

### PRODUCT CERTIFICATIONS



Production process  
reliability test  
electro-luminance  
inspection



AR coating  
tolerance and lower  
resistive loss



Excellent Durability  
resistant to salt mist, ammonia,  
dust and sand, snail trail.



Reduce BOS cost  
increase ROI  
Low temp coefficient  
(PMax) for higher output



Wide Applications  
Durability against Extreme  
Environmental Conditions



Lower Losses  
Multi Busbar Technology for  
better Light trapping

# JH-G12DS132C 650~670W



## Electrical parameters at Standard Test Conditions (STC\*) & Nominal Operating Cell Temperature (NOCT\*)

Module Type	650W / 492W	655W / 495W	660W / 499W	665W / 504W	670W / 509W
Test Environment	STC / NOCT				
Power output tolerances Pmax(W)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Module efficiency(%)	20.92	21.09	21.25	21.41	21.57
Voltage at Pmax Vmpp(V)	37.70 / 35.1	37.90 / 35.20	38.10 / 35.40	38.30 / 35.60	38.50 / 35.80
Current at Pmax Impp(A)	17.27 / 14.01	17.31 / 14.05	17.35 / 14.10	17.39 / 14.16	17.43 / 14.23
Open-circuit voltage Vco(V)	45.50 / 42.90	45.70 / 43.00	45.90 / 43.20	46.10 / 43.40	46.30 / 43.60
Short-circuit current Ico(A)	18.35 / 14.79	18.40 / 14.83	18.45 / 14.87	18.50 / 14.91	18.55 / 14.95

\*STC: 1000 W·m<sup>-2</sup> irradiance, 25°C cell temperature, AM 1.5 spectrum according to EN 60904-

\*NOCT: open-circuit module operation temperature at 800 W·m<sup>-2</sup> irradiance, 20°C ambient temperature, 1 m·s<sup>-1</sup> wind speed.

3.

## GENERAL CHARACTERISTICS

Dimensions (L / W / H)	2384 mm / 1303mm / 35 mm
Weight	38.7 kg

## PACKAGING SPECIFICATIONS

Number of modules per pallet	31
Number of pallets per 40' container	18

## THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	45 ± 2
Temperature coefficient of P <sub>max</sub>	γ	% / °C	-0.34
Temperature coefficient of V <sub>oc</sub>	β	% / °C	-0.25
Temperature coefficient of I <sub>sc</sub>	α	% / °C	0.04

\*NOCT: open-circuit module operation temperature at 800 W·m<sup>-2</sup> irradiance, 20°C ambient temperature, 1 m·s<sup>-1</sup> wind speed.

## OPERATING CONDITIONS

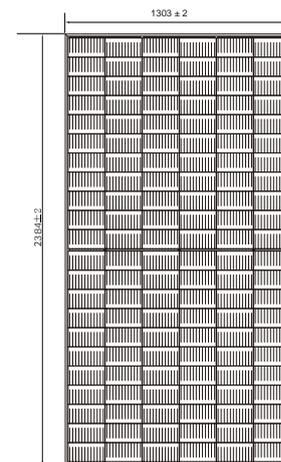
Max. system voltage	1500 Vdc
Max. series fuse rating*	35 A
Operating temperature range	-40°C to 85°C
Max. static load, front (e.g., snow)	5400 Pa
Max. static load, back (e.g., wind)	2400 Pa
Max. hailstone impact (diameter/velocity)	25 mm / 23 m·s <sup>-1</sup>

\*DO NOT CONNECT FUSE IN COMBINER BOX WITH TWO OR MORE STRINGS IN PARALLEL CONNECTION.

## CONSTRUCTION MATERIALS

Cell (material / quantity)	monocrystalline silicon / 6 x 22
Glass (material / thickness)	low-iron tempered glass / 2 mm + 2 mm
Frame (material)	anodized aluminum alloy
Junction box (type / protection degree)	3 bypass diodes / ≥ IP68
Cable (length / cross-sectional area)	± 300 mm or customized length / 4 mm <sup>2</sup>

## BACK VIEW (Units: mm)



SECTION A-A



Warning: Read the Installation and User Manual in its entirety before handling, installing and operating Solar modules.



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