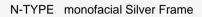
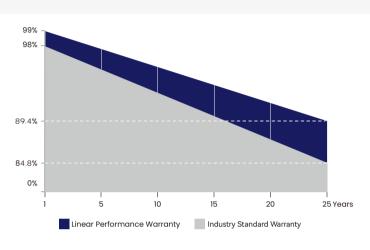


## JH-M10MS120C2 440~460W

### **22**.8% Efficiency

440~460W (182x169.2 mm Half-Cut Cell) 120 pcs









### **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



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



AR coating tolerance and lower resistive loss

Wide Applications

Durability against Extreme

Environmental Conditions



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



Lower Losses Multi Busbar Technologyfor better Light trapping

# JH-M10MS120C2 440~460W



Electrical parameters at Standard Test Conditions (STC*) & Nominal Operating Cell Temperature (NOCT*)					
Module Type	440W / 323W	445W / 328W	450W / 333W	455W / 338W	460W / 341W
Test Environment	STC / NOCT				
Power output tolerances Pmax(W)	(0,+5)	(0,+5)	(0,+5)	(0,+5)	(0,+5)
Module efficiency(%)	21.8	22.0	22.3	22.5	22.8
Voltage at Pmax Vmpp(V)	36.59 / 34.25	36.80 / 34.45	37.03 / 34.67	37.29 / 34.91	37.55 / 35.15
Current at Pmax Impp(A)	11.89 / 9.57	11.96 / 9.63	12.02 / 9.67	12.07 / 9.71	12.12 / 9.75
Open-circuit voltage Vco(V)	43.18 / 40.76	43.46 / 41.02	43.72 / 41.27	44.06 / 41.59	44.31 / 41.83
Short-circuit current Ico(A)	12.53 / 10.12	12.58 / 10.16	12.64 / 10.21	12.68 / 10.24	12.73 / 10.29

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

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

GENERAL CHARACTERISTICS	
Dimensions (L / W / H)	1762 mm / 1134mm / 30 mm
Weight	24.2 kg

PACKAGING SPECIFICATIONS	
Number of modules per pallet	36
Number of pallets per 40' container	26

THERMAL CHARACTERISTICS			
Nominal operating cell temperature	NOCT	°C	45 ± 2
Temperature coefficient of P <sub>max</sub>	γ	%/°C	-0.29
Temperature coefficient of Voc	β	%/°C	-0.25
Temperature coefficient of lsc	α	%/°C	0.045

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

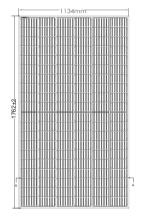
#### **OPERATING CONDITIONS**

3.

Max. system voltage	1500 Vdc	
Max. series fuse rating*	25 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 20
Glass (material / thickness)	low-iron tempered glass / 3.2 mm
Frame (material)	anodized aluminum alloy
Junction box (type / protection degree)	3 bypass diodes $/ \ge IP68$
Cable (length / cross-sectional area)	$\pm$ 300 mm or customized length / 4 mm $^{2}$







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

CE



Web: http://jhpvtech.com

180

Address: No. 1 Xinsi Road, Xinbei District, Changzhou City, Jiangsu Province, P.R. China



c (U) us

▲ Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications may deviate slightly and are not guaranteed.