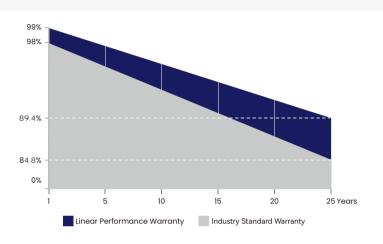


JH-M10DF120C2 440~460W

22.8% Efficiency

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

N-TYPE Full Black Bifacial









KEY FEATURES HIGHLIGHTS







High stablility and torsion free with Wave Shape

PRODUCT CERTIFICATIONS



Production process reliability test electro-luminance inspection



AR coating tolerance and lower resistive loss



Excellent Durability resistantto 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 Technologyfor better Light trapping

JH-M10DF120C2 440~460W



Electrical parameters at Standard Te	st Conditions (STC*) & N	lominal Operating Cell Temp	perature (NOCT*)		
Module Type	440W / 323W	445W / 328W	450W / 333W	455W / 338W	460W / 341W
Test Environment	STC / NOCT	STC / NOCT	STC / NOCT	STC / NOCT	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-

3.

GENERAL CHARACTERISTICS	
Dimensions (L / W / H)	1762 mm / 1134mm / 30 mm
Weight	28 kg

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

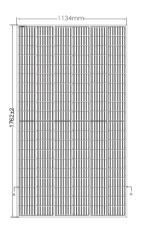
THERMAL CHARACTERISTICS			
Nominal operating cell temperature	NOCT	°C	45 ± 2
Temperature coefficient of P _{max}	γ	%/°C	-0.29
Temperature coefficient of Voc	β	%/°C	-0.25
Temperature coefficient of Isc	α	%/°C	0.045

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

1500 VDC	
25 A	
- 40°C to 85°C	
5400 Pa	
2400 Pa	
25 mm / 23 m·s ⁻¹	
	25 A - 40°C to 85°C 5400 Pa 2400 Pa

CONSTRUCTION MATERIALS	
Cell (material / quantity)	monocrystalline silicon / 6 x 20
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 mm²

BACK VIEW (Units: mm)







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









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