

BLACKSTAR

108 cell

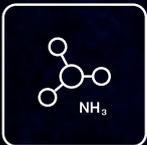
SOLID Framed_ Glass/Glass_Full_Black



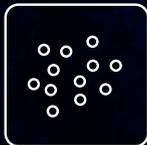
Fire class A



Extreme load resistance



Ammonia resistance



Salt mist resistance



98,8% recyclable



35% of recycled glass content



Hail resistance



Positive sorting up to +5W

Front side ⚡ 420 W



Deutsches Institut für Bautechnik



DIBt In Progress

30

Year product warranty

90%

Power warranty

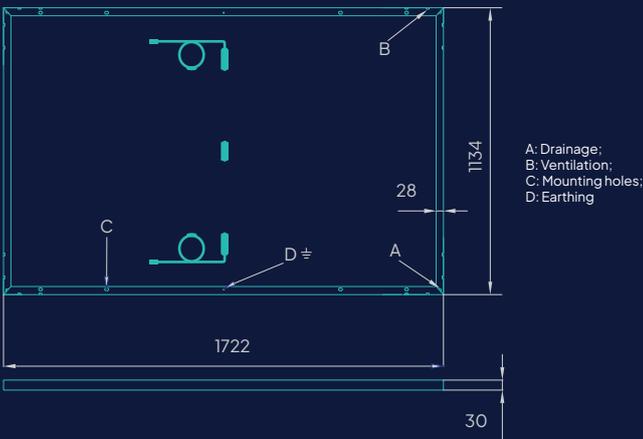
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Year efficiency warranty

Electrical data (STC*)	
Maximum power (W)	420
Cell technology	N type, TOPCon - bifacial
Open circuit voltage (V_{oc}/V)	37,68
Short circuit current (I_{sc}/A)	13,50
Max power voltage (V_{mpp}/V)	32,15
Max power current (I_{mpp}/A)	13,06
Module efficiency (n)	21,51%
Max system voltage (V)	1000
Max current (A)	20
Power tolerance	0/+5W

*Under standard test conditions (STC) of irradiance of 1000W/sq.m., spectrum AM1.5 and cell temperature of 25°C. Flash testing measurement accuracy of +/-5%.

Warranty	
30 years product warranty	
30 years efficiency warranty	
First year degradation (%)	1%
Annual degradation (%)	0.31%
Power in year 30 (%)	90%



Temperature ratings	
Current temperature coefficient (α)	+0.045% / °C
Voltage temperature coefficient (β)	-0.250% / °C
Power temperature coefficient (δ)	-0.300% / °C
Nominal operating module temperature	46 °C
Mechanical data	
Dimensions (LxWxH) (mm)	1722x1134x30 mm
Weight (kg)	25
Front glass (mm)	2
Back glass (mm)	2, black
Cell Size (mm)	182x91
Busbars	10
Cell configuration	6x18
Frame	Black anodized aluminium frame
Rated operating altitude	Up to 2000 m
Operating temperature (°C)	-40 ÷ +85
Maximum test load (wind/snow) (Pa)	3600/8100
Junction box / IP class	Split junction box / IP68
Cable cross section size (mm ²)	4
Cable length	1,2 m
Bypass diodes	3
Connector	MC4-EVO2

Packing information	
Modules per pallet	33 pcs
Dimensions of a pallet (LxWxH)	1770x1180x1219 mm
Weight of a pallet (gross)	839 kg
Pallets per 13.6 m truck	28 pcs
Modules per 13.6 m truck	924 pcs

Certifications	
IEC 61215:2021; IEC 61730:2016; UL 61730:2017	
Cradle to Cradle (C2C)	Gold level
IEC 62716:2013	Ammonia corrosion testing
IEC 61701:2020	Salt mist corrosion testing
IEC 61215-2:2021	Hailstone (25 mm)
ISO 9001:2015	Quality management systems
ISO 14001:2015	Environmental management systems
ISO 45001:2018	Occupational health and safety
SundaHus	A level assessment
Produced using 100% renewable energy	
Membership at Svensk Solenergi	



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