

PRODUCT DATASHEET · BIFACIAL DUAL-GLASS

HJT Dual-Glass Module

120-Cell heterojunction · High-efficiency bifacial · Utility-scale

G12-120

POWER RANGE 655 - 665 W

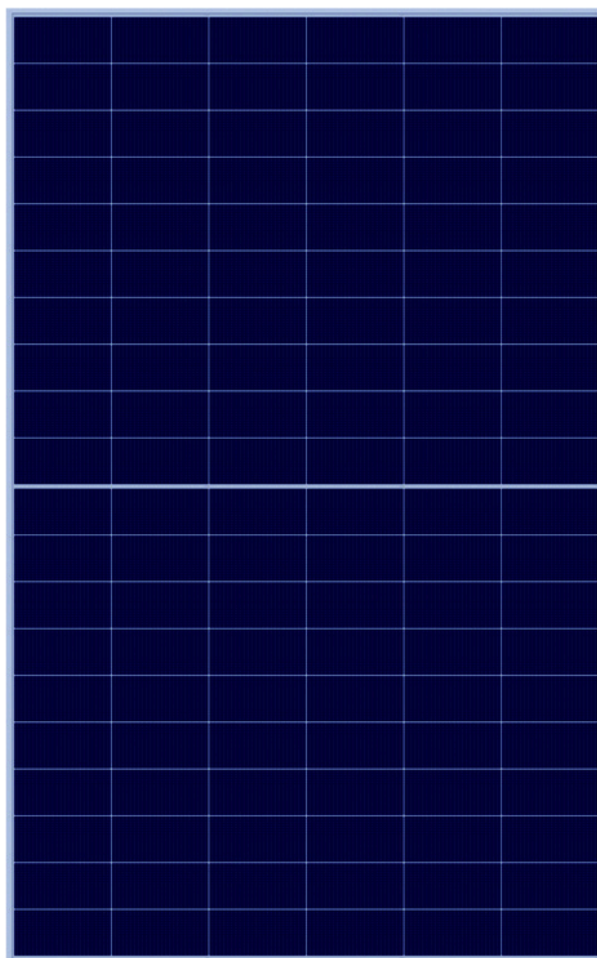
ENGINEERED IN AUSTRALIA

DELIVERABLE
POWER

665_W

DELIVERABLE
EFFICIENCY

23.5 %



AS120A-XXX-FZ



HJT Technology

Lower resistance for higher cell efficiency and greater module power output.



Sealing with PIB

Stronger moisture resistance and greater airtightness extend module lifespan.



Better Temperature Coefficient

Temp. coefficient of $-0.24\%/^{\circ}\text{C}$ delivers higher yield under high temperatures.



Ideal for Utility-scale

Lower BOS and LCOE for higher project returns across large deployments.

COMPREHENSIVE PRODUCT & SYSTEM CERTIFICATION



ISO 9001 · Quality Management

ISO 14001 · Environment Management

ISO 45001 · Health & Safety Management

15 YEARS

PRODUCT
WARRANTY

30 YEARS

LINEAR
POWER WARRANTY

First-year output $\geq 99\%$ · $\geq 90.3\%$ retained at year 30



Engineering & Technical Data

Model AS120A-XXX-FZ · 120-cell HJT bifacial dual-glass

ELECTRICAL CHARACTERISTICS

MODEL	655-FZ	660-FZ	665-FZ
STC – AM1.5, 1000 W/m ² , 25 °C			
Maximum Power P _{max} (W)	655	660	665
Voltage at P _{max} V _{mp} (V)	38.32	38.41	38.50
Current at P _{max} I _{mp} (A)	17.10	17.19	17.28
Open Circuit Voltage V _{oc} (V)	45.64	45.74	45.84
Short Circuit Current I _{sc} (A)	18.19	18.28	18.37
Module Efficiency (%)	23.1	23.3	23.5
BNPI – FRONT 1000 W/m ² , REAR 135 W/m ² , 25 °C			
Maximum Power P _{max} (W)	735	740	746
Voltage at P _{max} V _{mp} (V)	38.40	38.49	38.58
Current at P _{max} I _{mp} (A)	19.13	19.23	19.33
Open Circuit Voltage V _{oc} (V)	45.73	45.83	45.93
Short Circuit Current I _{sc} (A)	20.40	20.50	20.60

POWER TOLERANCE	MAX SYSTEM VOLTAGE	BIFACIALITY
0 ~ +5 W	1500 V DC	90% ± 5%

TEMPERATURE CHARACTERISTICS

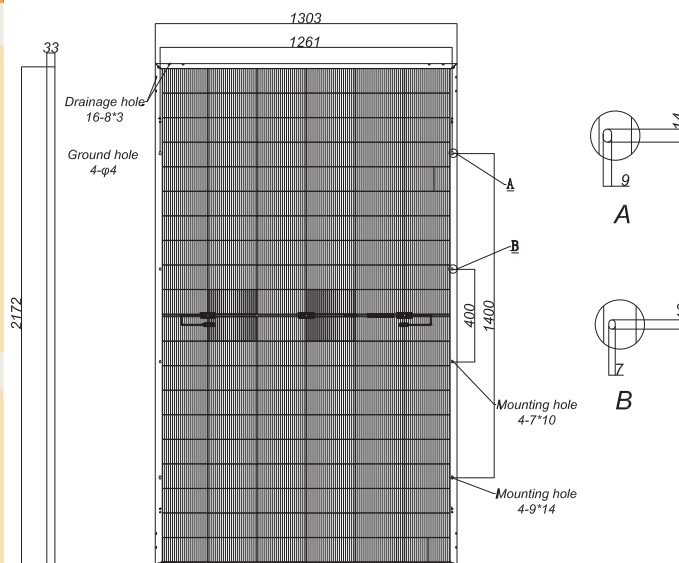
Nominal Operating Cell Temp. (NOCT)	43 ± 2 °C
Temp. Coefficient of P _{max}	-0.24 %/°C
Temp. Coefficient of V _{oc}	-0.24 %/°C
Temp. Coefficient of I _{sc}	+0.04 %/°C
Max. Series Fuse Rating	35 A
Operating Temperature	-40 ~ +85 °C

PACKAGING

METHOD	MODULES / PALLET	PALLETS	MODULES
Flat-bed trailer 13 m	33	22	726
Flat-bed trailer 17.5 m	33	28	924
Container 40	33	18	594

Vehicle loading quantity is subject to the condition of transportation.

ENGINEERING DRAWING



MECHANICAL CHARACTERISTICS

Cell Type	HJT, 210 × 105 mm
No. of Cells	120 pcs (6 × 20)
Superstrate	(F) 2.0 mm coated semi-tempered glass
Substrate	(B) 2.0 mm semi-tempered glass
Frame	Anodized aluminum alloy / steel frame
Junction Box	IP68
Cable	4 mm ² , 300 mm (or customized); UV resistant
Connector	MC4 compatible
Dimensions	2172 × 1303 × 33 mm
Weight	35.0 kg
Max. Static Load	5400 Pa snow / 2400 Pa wind