

PRODUCT DATASHEET · BIFACIAL DUAL-GLASS

HJT Dual-Glass Module

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

G10-144

POWER RANGE 585 - 595 W

ENGINEERED IN AUSTRALIA

DELIVERABLE
POWER

595 W

DELIVERABLE
EFFICIENCY

23.0 %



AS144-XXX-FN



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

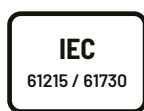
Temp. coefficient of $-0.24\% / ^\circ\text{C}$ delivers higher yield under high temperatures.



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 AS144-XXX-FN · 144-cell HJT bifacial dual-glass

ELECTRICAL CHARACTERISTICS

MODEL	585-FN	590-FN	595-FN
STC – AM1.5, 1000 W/m², 25 °C			
Maximum Power P _{max} (W)	585	590	595
Voltage at P _{max} V _{mp} (V)	45.21	45.42	45.63
Current at P _{max} I _{mp} (A)	12.94	12.99	13.04
Open Circuit Voltage V _{oc} (V)	54.12	54.31	54.50
Short Circuit Current I _{sc} (A)	13.40	13.45	13.50
Module Efficiency (%)	22.6	22.8	23.0
BNPI – FRONT 1000 W/m², REAR 135 W/m², 25 °C			
Maximum Power P _{max} (W)	656	661	667
Voltage at P _{max} V _{mp} (V)	45.37	45.58	45.79
Current at P _{max} I _{mp} (A)	14.46	14.52	14.57
Open Circuit Voltage V _{oc} (V)	54.31	54.50	54.69
Short Circuit Current I _{sc} (A)	15.03	15.08	15.14

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

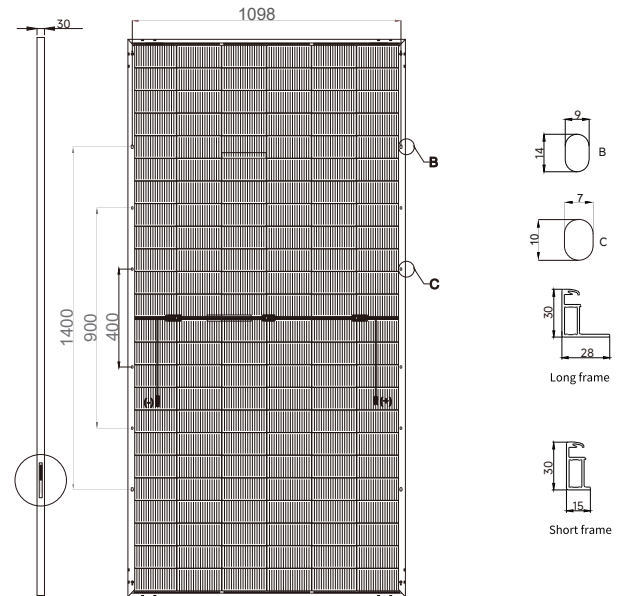
Nominal Operating Cell Temp. (NOCT)	43 ± 2 °C
Temp. Coefficient of P _{max}	-0.24 %/°C
Temp. Coefficient of V _{oc}	-0.24 %/°C
Temp. Coefficient of I _{sc}	+0.04 %/°C
Max. Series Fuse Rating	25 A
Operating Temperature	-40 ~ +85 °C

PACKAGING

METHOD	MODULES / PALLET	PALLETS	MODULES
Container 40	36	20	720

Vehicle loading quantity is subject to the condition of transportation.

ENGINEERING DRAWING



MECHANICAL CHARACTERISTICS

Cell Type	HJT
No. of Cells	144 pcs (6 × 24)
Superstrate	(F) 2.0 mm anti-reflection coating
Substrate	(B) 2.0 mm heat strengthened glass
Frame	Anodized aluminum alloy / steel frame
Junction Box	IP68 rated
Cable	4 mm ² , 300 mm (or customized); UV resistant; (+)350 mm, (-)250 mm or customized length
Connector	MC4 compatible
Dimensions	2278 × 1134 × 30 mm
Weight	31.3 kg
Max. Static Load	5400 Pa snow / 2400 Pa wind