



415-440W

182mm Half Cell, 108 Cells
TOPCon Monofacial Solar Module,
Full Black

22.5%

Module
Efficiency

440W

Highest Power
Output

Product Advantages



Half Cut technology

New circuit design, lower internal current, lower Rs loss
Ga doped wafer, attenuation <1% (1st year) / ≤0.40%
(Linear)



Significantly lower the risk of hot-spot

Special circuit design with much lower hot spot
temperature



Lower LCOE

2% more power generation, lower LCOE



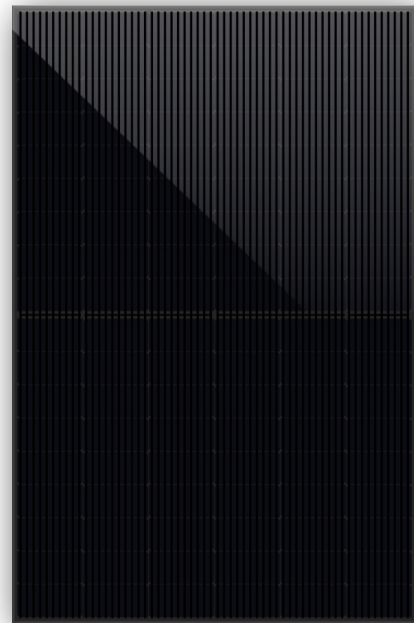
Excellent Anti-PID performance

2 times of industry standard Anti-PID test by TUV SUD



IP68 junction box

High waterproof level



Backed by a 30-Year British Warranty

- ✓ 30 Year Performance Warranty
- ✓ 15 Year Materials & Workmanship Warranty



Half Cell, MBB Technology

Series-then-parallel cell connection design,
more reliable soldering technology



LOW RISK BRITISH
PROCUREMENT



BRITISH TECHNICAL
SUPPORT



ALWAYS GRADE
"A" CELLS



BRITISH QUALITY
STANDARDS



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WEEE registration number (WPRN) is WEE/MM9084AA

UKS-S108/M10N-XXX

ELECTRICAL DATA (STC)

Maximum Power (Pmax/W)*	415	420	425	430	435	440
Operating Voltage (Vmp/V)	31.9	32.1	32.3	32.5	32.7	32.9
Operating Current (Imp/A)	13.01	13.09	13.16	13.24	13.31	13.38
Open-Circuit Voltage (Voc/V)	38.5	38.7	38.9	39.1	39.3	39.5
Short-Circuit Current (Isc/A)	13.72	13.81	13.91	14.01	14.10	14.19
Module Efficiency η_m (%)	21.2	21.5	21.7	22.0	22.3	22.5

Power Tolerance-PMAX (W)

0~+5

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5; *Measuring tolerance: ±3%

ELECTRICAL DATA (NMOT)

Maximum Power (Pmax/W)	317	321	325	329	333	337
Operating Voltage (VMP/V)	30.0	30.2	30.4	30.6	30.8	31.0
Operating Current (Imp/A)	10.57	10.63	10.70	10.76	10.82	10.88
Open-Circuit Voltage (Voc/V)	36.4	36.6	36.8	37.0	37.2	37.4
Short-Circuit Current (Isc/A)	11.10	11.18	11.25	11.33	11.41	11.48

NMOT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind speed 1m/s

Specifications may change without notice.

MECHANICAL DATA

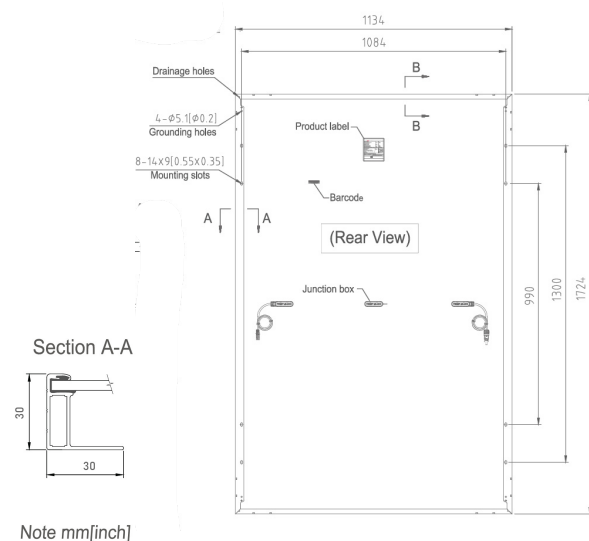
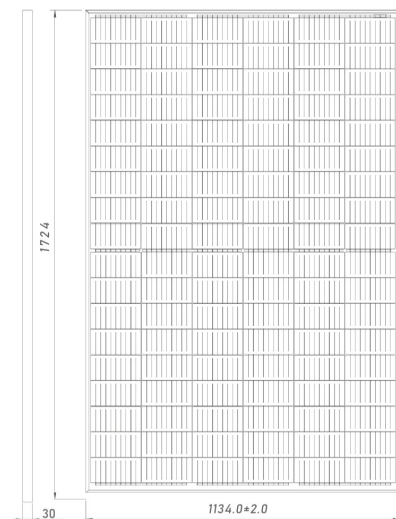
Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	108 (6°18)
Cell Dimensions	182 x 91mm
Module Dimensions	1724 x 1134 x 30 mm
Weight	25.1kgs
Front Glass	2.0 mm tempered Glass
Packing Configuration	36 pcs/Carton, 936 pcs/40HQ
Frame	30mm Anodized Aluminium Alloy (silver/black frame optional)
Junction Box	IP 68 Rated
Cables	Photovoltaic Technology Cable 4.0mm ² 350mm or customised length
Cable Cross Section Size	TUV: 4mm ²

OPERATING CONDITIONS

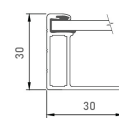
Maximum System Voltage	1500V/DC (IEC)
Operating Temperature	-40°C to +85°C
Maximum Series Fuse	25A
Static Loading	Snow Loading: 5400Pa/ Wind Loading 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

TEMPERATURE RATINGS

Temperature Coefficient of P _{MAX}	0.29%/°C
Temperature Coefficient of V _{OC}	-0.25%/°C
Temperature Coefficient of I _{SC}	+0.046%/°C
NMOT	42±2°C

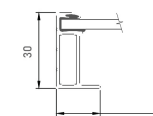


Section A-A

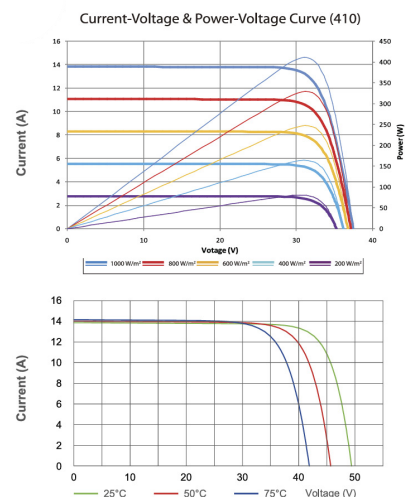


Note mm[inch]

Section B-B



I-V CURVE



1.00% First Year Power Degradation

0.40% Annual Degradation

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