



CERTIFIED

435-460W

182mm Half Cell, 108 Cells
TOPCon Monofacial Solar Module

23.0%

Module
Efficiency

460W

Highest Power
Output

Product Advantages



16BB half-cut cell technology

New circuit design, lower internal current,
lower Rs loss Ga doped wafer, attenuations
<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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UKS-S108/M10N-R-XXX

ELECTRICAL DATA (STC)

Maximum Power (P _{max} /W)*	435	440	445	450	455	460
Operating Voltage (V _{mp} /V)	32.6	32.8	33.0	33.2	33.4	33.6
Operating Current (I _{mp} /A)	13.35	13.42	13.49	13.56	13.63	13.70
Open-Circuit Voltage (V _{oc} /V)	39.1	39.3	39.5	39.7	39.9	40.1
Short-Circuit Current (I _{sc} /A)	13.84	13.93	14.01	14.10	14.18	14.27
Module Efficiency η_m (%)	21.8	22.0	22.3	22.5	22.8	23.0
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 (P _{max} /W)*	327	331	335	339	343	347
Operating Voltage (V _{mp} /V)	30.3	30.5	30.7	30.9	31.1	31.3
Operating Current (I _{mp} /A)	10.79	10.85	10.91	10.97	11.03	11.09
Open-Circuit Voltage (V _{oc} /V)	37.2	37.4	37.6	37.8	38.0	38.2
Short-Circuit Current (I _{sc} /A)	11.17	11.25	11.32	11.40	11.47	11.54

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

MECHANICAL DATA

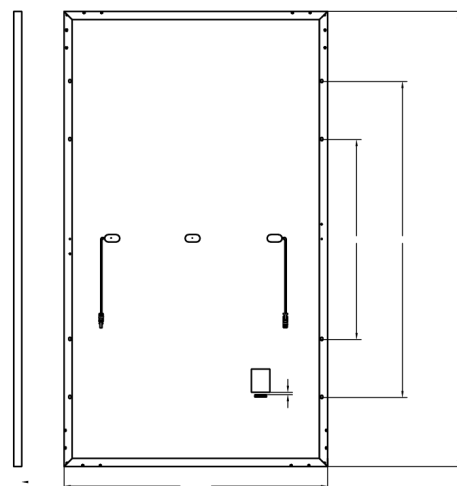
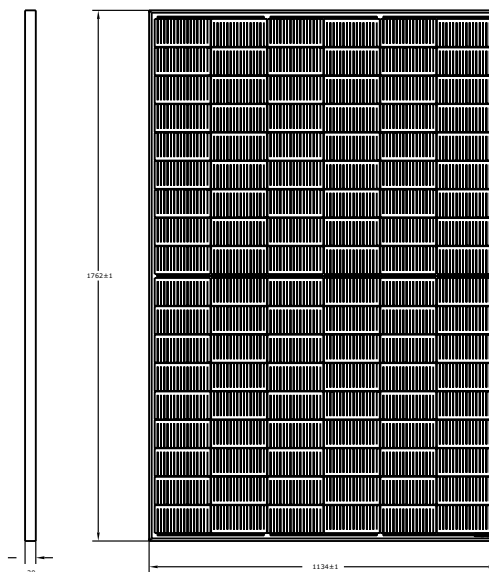
Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	108 (6*18)
Module Dimensions	1762 x 1134 x 30mm
Weight	21.5kg
Encapsulant Material	POE/EVA
Cable length	350mm or customised length
Cable Cross Section Size	TUV: 4mm ²
Front Glass	3.2mm AR coating tempered glass
No. of bypass diodes	3
Packing configuration	36 pcs/carton, 936 pcs/HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated

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

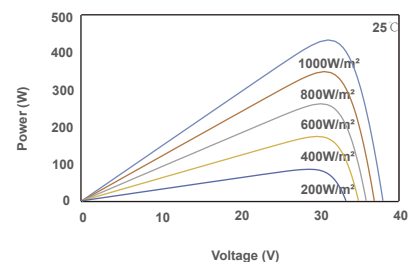
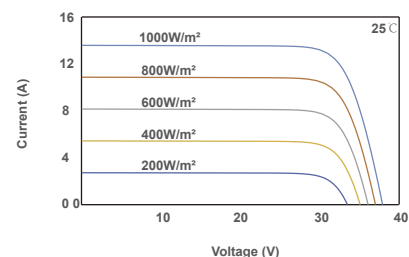
Temperature Ratings

Nominal Module Operating Temperature	42±2°C
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



I-V CURVE

Current-Voltage & Power-Voltage Curve (460)



WEEE registration number (WPRN) is WEE/MM9084AA



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1.00% First Year Power Degradation

0.40% Annual Degradation