

CERTIFIED

500W

182mm Half Cell, 108 Cells TOPCon Bifacial Solar Module

23.2%

Module
Efficiency

515W

Highest Power
Output

Product Advantages



16BB Half-Cut Cell Technology

New circuit design, lower internal current, lower Rs loss
Ga doped wafer, attenuation <1% (1st Year) / $\approx 0.40\%$
(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



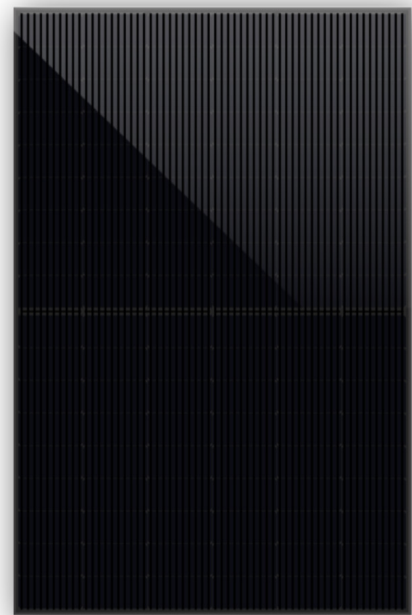
Excellent Anti-PID Performance

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



IP68 junction box

High waterproof and dustproof 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-R1-BG

ELECTRICAL DATA (STC)

Peak Power Watts-PMax (Wp)*	495	500	505	510	515
Operating Voltage (Vmp/V)	32.9	33.1	33.3	33.5	33.7
Operating Current (Imp/A)	15.05	15.11	15.17	15.22	15.28
Open-Circuit Voltage (Voc/V)	39.5	39.7	39.9	40.1	40.3
Short-Circuit Current (Isc/A)	16.00	16.08	16.16	16.24	16.32
Module Efficiency η_m (%)	22.3	22.5	22.7	22.9	23.2
Power Tolerance-PMAX (W)	0/+5W				
STC: Irradiance 1000W/m ² , module temperature 25°C, AM=1.5; *Measuring tolerance: ±3%					

ELECTRICAL DATA (BNPI)

Peak Power-PMAX (Wp)*	540	545	550	555	560
Maximum Power Voltage-VMP (V)	32.9	33.1	33.3	33.5	33.7
Maximum Power Current-IMP (A)	16.41	16.47	16.52	16.57	16.62
Open-Circuit Voltage (Voc/V)	39.5	39.7	39.9	40.1	40.3
Short-Circuit Current (Isc/A)	17.64	17.71	17.79	17.86	17.91
BNPI: Irradiance 1000W/m ² , module temperature 25°C					

ELECTRICAL DATA (NMOT)

Maximum Power-PMAX (Wp)*	375	379	383	387	391
Operating Voltage (VMP/V)	30.8	31.0	31.2	31.4	31.6
Operating Current (Imp/A)	12.18	12.23	12.28	12.32	12.37
Open-Circuit Voltage (Voc/V)	37.7	37.9	38.1	38.3	38.5
Short-Circuit Current (Isc/A)	12.83	12.90	12.97	13.04	13.10
NMOT: Irradiance 800W/m ² , ambient temperature 20°C, AM=1.5, wind speed 1 m/s					

Specifications may change without notice.

MECHANICAL DATA

Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	108
Module Dimensions	1960 x 1134 x 30mm
Weight	27.5kg
Encapsulant Material	POE/EVA
Front Glass	2.0mm High Transmission, AR Coated Heat Strengthened Glass
Back Glass	2.0mm Heat Strengthened Glass (White Grid Glass)
Frame	30mm Anodized Aluminium Alloy
Junction Box	IP 68 Rated
Cables	Photovoltaic Technology Cable 4.0 mm ² Cable length 350 mm or customized length

Temperature Ratings

Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C

Maximum Ratings

Operational Temperature	-40~+85°C
Maximum system voltage	1500 V DC (IEC)
Max Series Fuse Rating	35A

Packing Configuration

Modules per box	36 pieces
Modules per 40' container	864 pieces

WEEE registration number (WPRN) is WEE/MM9084AA

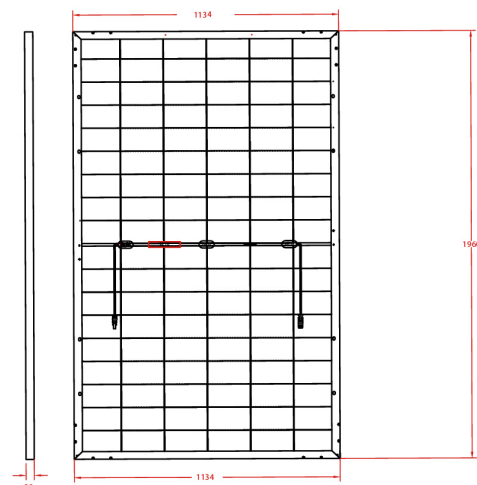
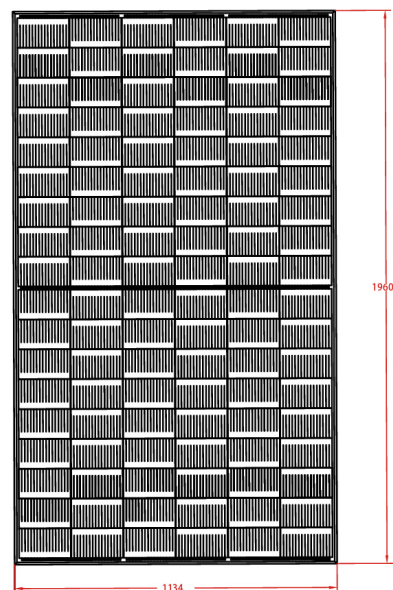


1.00% First Year Power Degradation

0.40% Annual Degradation

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I-V CURVE

Current-Voltage & Power-Voltage Curve (495)

