



465-485W

182mm Half Cell, 120 Cells
TOPCon Monofacial Solar Module

22.4%

Module
Efficiency

485W

Highest Power
Output

Product Advantages



High Efficiency

Module efficiency leading in industry, up to 20.4%



Low Hot-Spot Risk

1/2 current, reducing the hot-spot temperature



Excellent loading capability

2400Pa wind loads, 5400Pa snow loads, 8000Pa extra support



Low NMOT

As low as 43°C, improving the power generation efficiency



British Warranty & Support

Long-term trustworthy after sales care (UK Based)



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-S120/M10N-XXX

ELECTRICAL DATA (STC)

STC	465	470	475	480	485
Maximum Power at STC (Pmax)	465	470	475	480	485
Optimum Operating Voltage (Vmp)	35.5	35.7	35.9	36.1	36.3
Optimum Operating Current (Imp)	13.10	13.17	13.24	13.30	13.37
Open-Circuit Voltage (Voc/V)	42.8	43.0	43.2	43.4	43.6
Short-Circuit Current (Isc/A)	13.83	13.91	13.99	14.08	14.16
Module Efficiency η_m (%)	21.5	21.7	21.9	22.2	22.4

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

ELECTRICAL DATA (NMOT)

NMOT	357	361	365	369	373
Maximum Power at NMOT (Pmax)	357	361	365	369	373
Optimum Operating Voltage (Vmp)	33.4	33.6	33.8	34.0	34.2
Optimum Operating Current (Imp)	10.69	10.75	10.80	10.86	10.91
Open-Circuit Voltage (Voc/V)	40.5	40.7	40.9	41.1	41.3
Short Circuit Current (Isc)				11.44	11.51

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

TEMPERATURE CHARACTERISTICS

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

MECHANICAL DATA

Solar Cells	N-Type TOPCon Monocrystalline
No. of Cells	120 Cells (6 x 20)
Module Dimensions	1909 x 1134 x 30mm
Weight	23.5kg
Front Glass	3.2mm AR Coating Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP 68 Rated.
Cable Length	350mm or customised length
Cable cross section size	TUV: 4mm
Connectors	MC4 Compatible

*Please refer to regional datasheet for specied connector.

OPERATING CONDITIONS

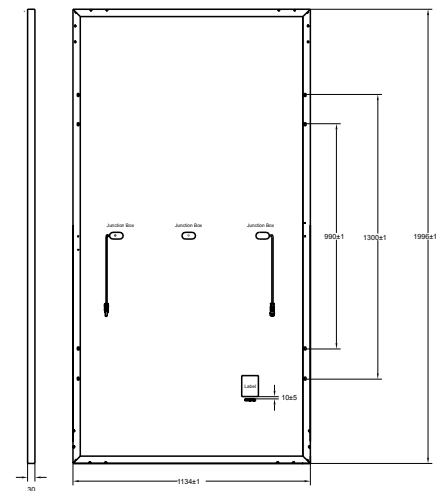
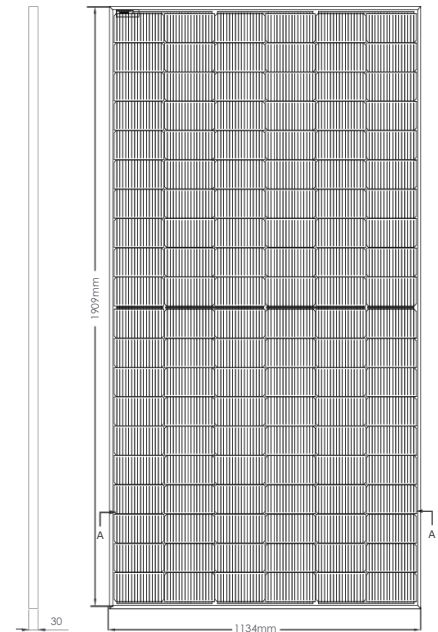
Maximum System Voltage	1500V/DC (IEC)
Operating Temperature	-40c to 85c
Maximum Series Fuse	25A
Static Loading	Snow Loading: 5400Pa / Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

WEEE registration number (WPRN) is WEE/MM9084AA



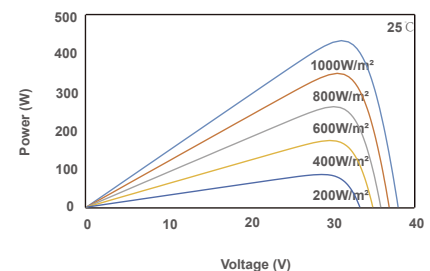
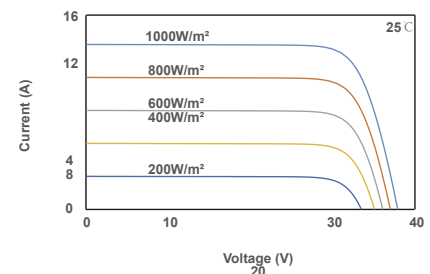
1.00% First Year Power Degradation

0.40% Annual Degradation



I-V CURVE

Current-Voltage & Power-Voltage Curve (485)



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