



CERTIFIED

595-625W

182mm Half Cell, 132 Cells
TOPCon Monofacial Solar Module

23.1%

Module
Efficiency

625W

Highest Power
Output

Product Advantages



High Module Conversion Efficiency

Module efficiency up to 23.1% achieved through advanced cell technology and manufacturing process



Lower Operating Temperature

Lower operating temperature and temperature coefficient increase the power output



Excellent Weak Light Performance

More power output in weak light condition, such as cloudy, morning and sunset



Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)



IP68 Junction Box

High waterproof and dustproof level



Half Cell, MBB Technology

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



Backed by a 30-Year British Warranty

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



LOW RISK BRITISH
PROCUREMENT



BRITISH TECHNICAL
SUPPORT



ALWAYS GRADE
"A" CELLS



BRITISH QUALITY
STANDARDS



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UKS-S132-M10N-R1

ELECTRICAL DATA (STC)

Maximum Power at STC (Pmax)	595	600	605	610	615	620	625
Optimum Operating Voltage (Vmp)	39.9	40.1	40.3	40.5	40.7	40.9	41.1
Optimum Operating Current (Imp)	14.91	14.97	15.02	15.07	15.12	15.17	15.21
Open Circuit Voltage (Voc)	48.0	48.2	48.4	48.6	48.8	49.0	49.2
Short Circuit Current (Isc)	15.83	15.90	15.96	16.03	16.10	16.16	16.22
Power Tolerance	0~+5w						
STC: Irradiance 1000W/m2, Cell temperature 25°C, Air Mass AM1.5							

ELECTRICAL DATA (NMOT)

Maximum Power at NMOT (PMax)	449W	453W	457W	461W	465W	469W	473W
Optimum Operating Voltage (Vmp)	37.2	37.4	37.6	37.8	38.0	38.2	38.4
Optimum Operating Current (Imp)	12.07	12.11	12.15	12.20	12.24	12.28	12.32
Open-Circuit Voltage (Voc/V)	45.6	45.8	46.0	46.2	46.4	46.6	46.8
Short Circuit Current (Isc) (A)	12.71	12.76	12.82	12.88	12.93	12.99	13.04
NMOT: Irradiance 800 W/m ² , ambient temperature 20 °C, AM=1.5, wind speed 1 m/s							

MECHANICAL DATA

Solar Cells	N-Type TOPCon Monocrystalline Monofacial
No. of Cells	132 Cells (6 x 20)
Module Dimensions	2382 x 1134 x 35mm
Encapsulant Material	POE/EVA
Weight	30.0kgs
Cable Length	350mm or customised length
Cable Cross Section Size	TUV: 4mm
Front Glass	3.2mm, AR coated heat strengthened glass
No. of Bypass Diodes	3
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated.
Packing Configuration	31 pcs/Carton, 620 pcs/40HQ
Cables	Photovoltaic Technology Cable 4.0mm ² Cable length 350mm or customised length

OPERATING CONDITIONS

Maximum System Voltage	1500V/DC (IEC)
Operating Temperature	-40°C to +85°C
Maximum Series Fuse	30A
Static Loading	Snow Loading: 5400Pa / Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.29 %/°C	1.00% First Year Power Degradation
Temperature Coefficient of Voc	-0.25 %/°C	
Temperature Coefficient of Isc	0.046 %/°C	0.40% Annual Degradation
NMOT (Nominal Module Operating Temperature)	42°C (±2°C)	

WEEE registration number (WPRN) is WEE/MM9084AA



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