

CERTIFIED

495-515W

182mm Half Cell, 108 Cells TOPCon Monofacial Solar Module

22.8%

Module
Efficiency

515W

Highest Power
Output

Product Advantages



High Module Conversion Efficiency

Module efficiency up to 22.8% 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



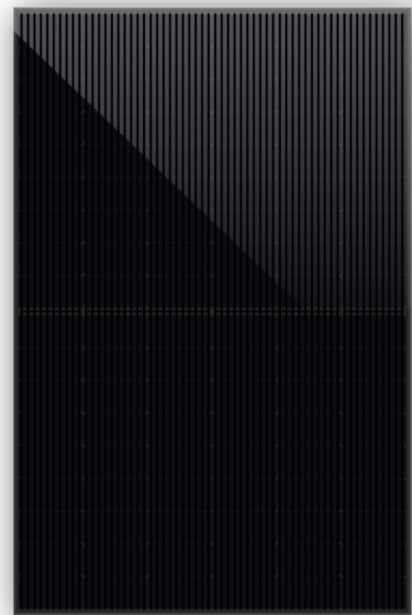
Extended Wind and Snow Load Tests

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



IP68 junction box

High waterproof and dustproof level



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



+44 (0)1753 910327 | info@uksol.uk | www.uksol.uk | WhatsApp: +44 (0)7949 489911

UKSOL and the UKSOL logo are registered trademarks of UKSOL Ltd.

UKS-S108/M10N-R1

ELECTRICAL DATA (STC)

Peak Power Watts-PMax (Wp)*	495	500	505	510	515
Operating Voltage (Vmp/V)	36.7	36.9	37.1	37.3	37.5
Operating Current (Imp/A)	13.49	13.55	13.61	13.67	13.73
Open-Circuit Voltage (Voc/V)	44.0	44.2	44.4	44.6	44.8
Short-Circuit Current (Isc/A)	14.06	14.14	14.22	14.29	14.37
Module Efficiency η_m (%)	21.9	22.1	22.3	22.5	22.8
Power Tolerance-PMAX (W)	0/+5W				
STC: Irradiance 1000W/m ² , module temperature 25°C, AM=1.5; *Measuring tolerance: ±3%					

ELECTRICAL DATA (NMOT)

Maximum Power-PMAX (Wp)*	373	377	381	385	389
Operating Voltage (VMP/V)	34.1	34.3	34.5	34.7	34.9
Operating Current (Imp/A)	10.94	10.99	11.04	11.10	11.15
Open-Circuit Voltage (Voc/V)	41.9	42.1	42.3	42.5	42.7
Short-Circuit Current (Isc/A)	11.31	11.38	11.44	11.51	11.58
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	120 (6°20')
Module Dimensions	1996 x 1134 x 30mm
Weight	24kgs
Encapsulant Material	POE/EVA
Front Glass	3.2 mm AR coated Heat Strengthened Glass
Frame	Anodized aluminium alloy
Output Cables	Photovoltaic Technology Cable 4.0mm2 Cable length 350mm or customised length
Junction Box	IP 68 Rated
No. of Bypass Diodes	3/6

Temperature Ratings

Nominal Module Operating Temperature	42 $\pm$ 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	25A

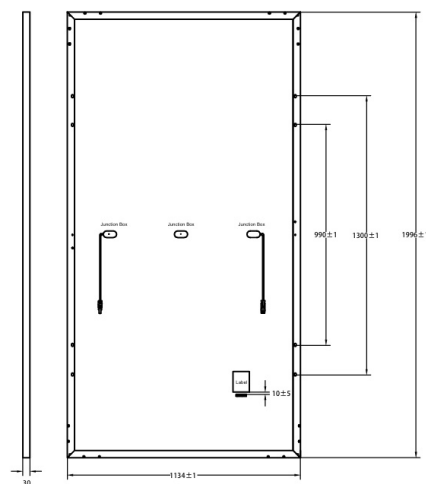
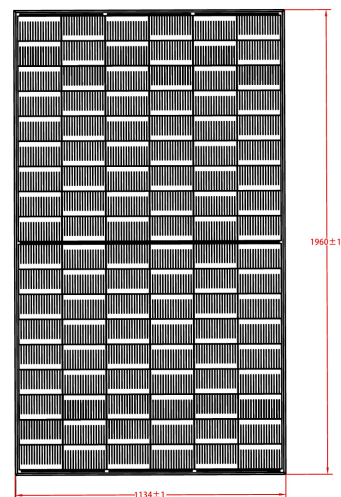
Packing Configuration

Modules per box	36 pieces
Modules per 40' container	792 pieces

WEEE registration number (WPRN) is WEE/MM9084AA

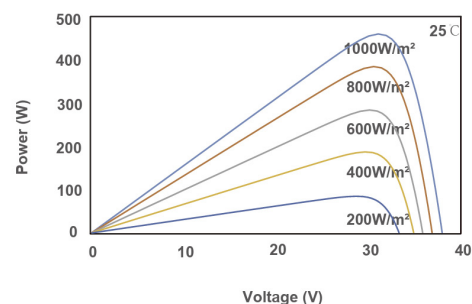
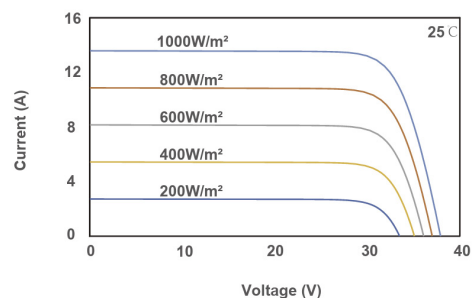
1.00% First Year Power Degradation

0.40% Annual Degradation



I-V CURVE

Current-Voltage & Power-Voltage Curve (495)



+44 (0)1753 910327 | info@uksol.uk | www.uksol.uk

UKSOL and the UKSOL logo are registered trademarks of UKSOL Ltd.