



ALL BLACK TOPcon Tigo Built-in

435W BLACK

HALF-CELL 108 CELL MONOFACIAL SOLAR MODULE

435W  
Highest power output

22.3%  
Module efficiency

PRODUCT QUALITY FEATURES

- +5w positive power tolerance. TOPcon high efficiency cell.
- Fire resistant to UNI9177, Fire Class I
- 30 year British performance warranty. UK service & support.
- 108 cell MBB technology. Ultra high power wafer.

PRODUCT ADVANTAGES



MBB Technology  
Improved light absorption



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



Half Cell, MBB Technology  
Series-then-parallel cell connection design, more reliable soldering technology



30 YEAR BRITISH WARRANTY

TOPcon Cell

12 Years

Materials and workmanship warranty

30 Years

Linear power warranty



LOW RISK BRITISH PROCUREMENT



BRITISH TECHNICAL SUPPORT



ALWAYS GRADE "A" CELLS



BRITISH QUALITY STANDARDS

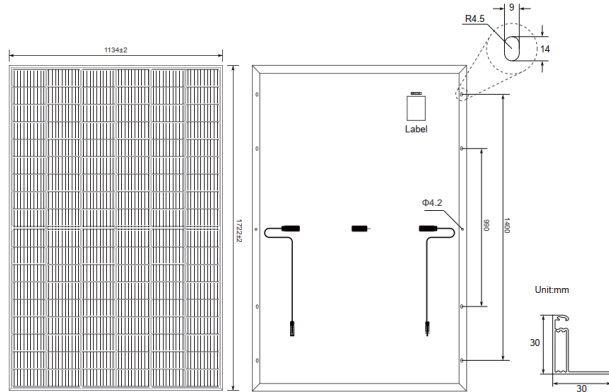


WEEE registration number (WPRN) is WEE/MM9084AA.

# UKS-S108-M10N-435-OPT

## ELECTRICAL CHARACTERISTICS

Standard - Black	435w
Nominal power, Pmpp	435 Wp
Tolerance, Pmpp	+5 W
Area of the module	1.96 m
Module efficiency	22.30 %
Isc	14.10 A
Voc	39.3 V
I <sub>mp</sub>	13.31 A
V <sub>mp</sub>	32.7 V
Maximum voltage	1500 V
$\alpha$ I <sub>sc</sub>	0.046 % / °C
$\beta$ Voc	- 0.25 % / °C
g P <sub>max</sub>	- 0.30 % / °C
Temperature range	- 40°C ~ +85°C
NOCT. <small>Nominal Operating Cell Temperature</small>	42 ± 2°C
Maximum series fuse rating	25 A



NOTE: Read the instruction manual of this product and follow the indications STC. Values are valid for: 1000W/m<sup>2</sup>, AM 1.5 and cell's temperature of 25°C. Measurement tolerance +/-3% (AAA Solar simulation -IEC 60.904-9-). All the information of this brochure may be amended without notice by UKSOL.

## NOCT: 800 W/m, ambient temp 20c, AM 1.5

Nominal power. P <sub>max</sub>	333 W
I <sub>sc</sub>	11.41 A
V <sub>oc</sub>	37.2 V
I <sub>mp</sub>	10.82 A
V <sub>mp</sub>	30.8 A



## MECHANICAL CHARACTERISTICS

Frame	Black anodized aluminium Robust and resistant to corrosion
Connection box	Sealed, robust and wide for heat dissipation IP68 according to IEC 60529 Diodes by-pass built-in (3/6) for protection of the partial shading Connector MC4 or compatible Cables 1000 mm (±30cm) length and 4mm <sup>2</sup> section Fire Class I approval (UNI 9177)
Frontal	3.2 mm thick tempered glass with high strength and ARC Textured, extra-clear with low iron content
Solar cells	108 (2 x 54) cells monocrystalline silicon
Weight, dimensions and packaging	21.0 Kg   1724 x 1134 x 30mm (+/-1%) 20ft container: 216 qty 40ft: 936 qty



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

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