



ALL BLACK TIGO OPTIMISED

410W BLACK

HALF-CELL 108 CELL MONOCRYSTALLINE SOLAR MODULE

410W
Highest power output

21%
Module efficiency

PRODUCT QUALITY FEATURES

- Tigo TS4-A-O unit fitted to reduce the effects of shading
- +5w positive power tolerance
- 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

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



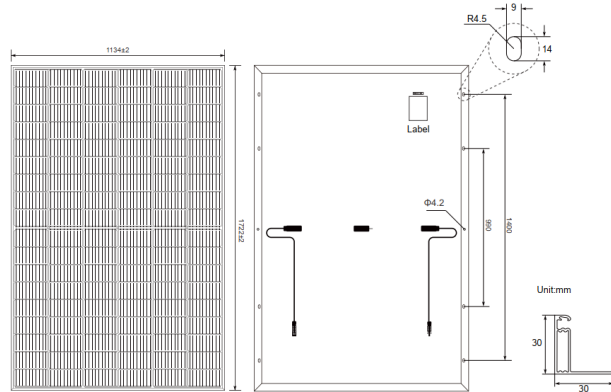
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Smith Bros (Caer Conan) Wholesale Ltd T: 01302 366 922 E: info@smithbrosuk.com

UKS-SM144-410-OPT

ELECTRICAL CHARACTERISTICS

Standard - Black	410w
Nominal power, Pmpp	410 Wp
Tolerance, Pmpp	+5 W
Area of the module	1.96 m
Module efficiency	21.00 %
Isc	13.95 A
Voc	37.32 V
Impp	13.04 A
Vmpp	31.45 V
Maximum voltage	1500 V
α Isc	0.045 % / °C
β Voc	- 0.275 % / °C
g Pmax	- 0.35 % / °C
Temperature range	- 40°C ~ +85°C
NOCT. <small>Nominal Operating Cell Temperature</small>	45 ± 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/m², 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. Pmax	310 W
Isc	11.16 A
Voc	35.23 V
Impp	10.43 A
Vmpp	29.72 A

Tigo®

MECHANICAL CHARACTERISTICS

Frame	Black anodized aluminium Robust and resistant to corrosion Built-in plug. Tigo TS4-A-O unit built-in.
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 ² 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	20.5 Kg 1724 x 1134 x 30mm (+/-1%) 20ft container: 216 qty 40ft: 936 qty



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