TIGER Neo 5.0

JinKO Solar

48HL6M-DB 485-510 Watt

ALL-BLACK TAC LUXURY MODULE

Ultra High Efficiency

Innovative cell design with hybrid passivation drives module efficiency to 25.52%, meaning more energy per square metre.

Aesthetic Appeal

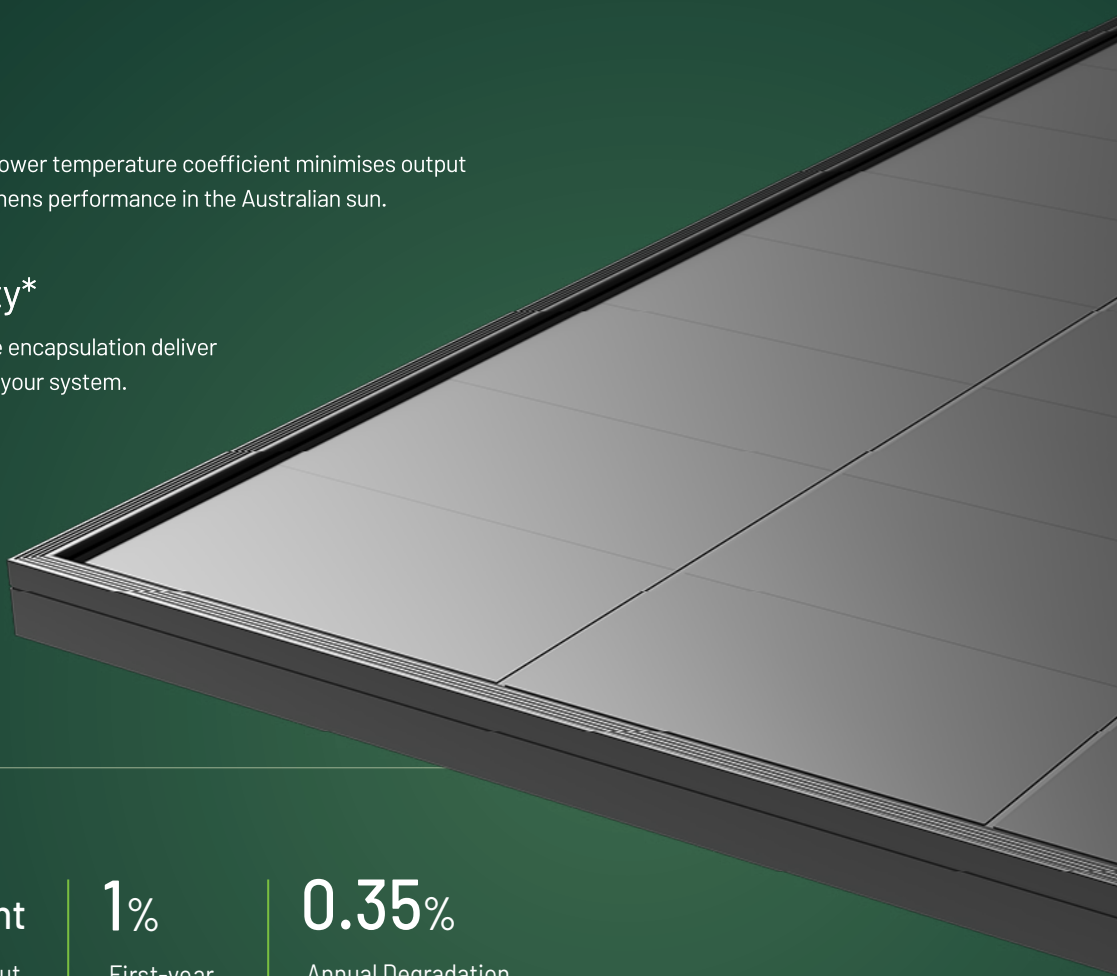
Full-black cells with a busbar-free front create a flawless, gap-free surface that blends into the roofline.

Heat Resistance

A best-in-class −0.24%/°C power temperature coefficient minimises output loss in high heat and strengthens performance in the Australian sun.

Lifelong Warranty*

A robust build and protective encapsulation deliver reliable energy for the life of your system.



Free Replacement

*Free replacement if module output falls below 70% of rated power

1%

First-year Degradation

0.35%

Annual Degradation

TÜV SÜD · PV CYCLE · CE · CLEAN ENERGY COUNCIL MEMBER · POSITIVE QUALITY™ Continuous Quality Assurance

JKM480-510T-48HL6M-DB-F1C1-OC

*For the detailed terms please refer to the warranty manual

48HL6M-DB 480-510 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	96 (48×2)
Dimensions	1762×1134×30 mm
Weight	22.0 kg
Front Glass	1.6 mm, Anti-reflection Coating
Back Glass	1.6 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	PV-JK03M/xy,PV-03M2/xy (JinKO) ; PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy (Staubli)
Output Cables (Including Connector)	≥4.0 mm² (+): 500 mm , (-): 400 mm or (+): 1200 mm , (-): 1200 mm or Customised Length

* MC4-EVO2 available upon request and subject to availability

Packaging Configuration

Pallet Dimensions	1792×1140×1249 mm
Packing Detail (Two pallets = One stack)	37 pcs/pallets, 74 pcs/stack, 962 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]*	480	485	490	495	500	505	510
Maximum Power Voltage - Vmp [V]	30.87	30.99	31.11	31.23	31.35	31.47	31.59
Maximum Power Current - Imp [A]	15.55	15.65	15.75	15.85	15.95	16.05	16.15
Open-circuit Voltage - Voc [V]	35.88	35.98	36.08	36.18	36.28	36.38	36.48
Short-circuit Current - Isc [A]	16.65	16.76	16.86	16.97	17.07	17.17	17.27
Module Efficiency STC [%]	24.02	24.27	24.52	24.77	25.02	25.27	25.52
Power Measurement Tolerance	± 3%						
Power Sorting	0 ~ + 3 %						
Temperature Coefficient of Pmax	-0.24 %/°C						
Temperature Coefficient of Voc	-0.21 %/°C						
Temperature Coefficient of Isc	0.050 %/°C						

STC: Irradiance 1000W/m Cell Temperature 25°C, AM=1.5. *Power measurement tolerance: ±3%.

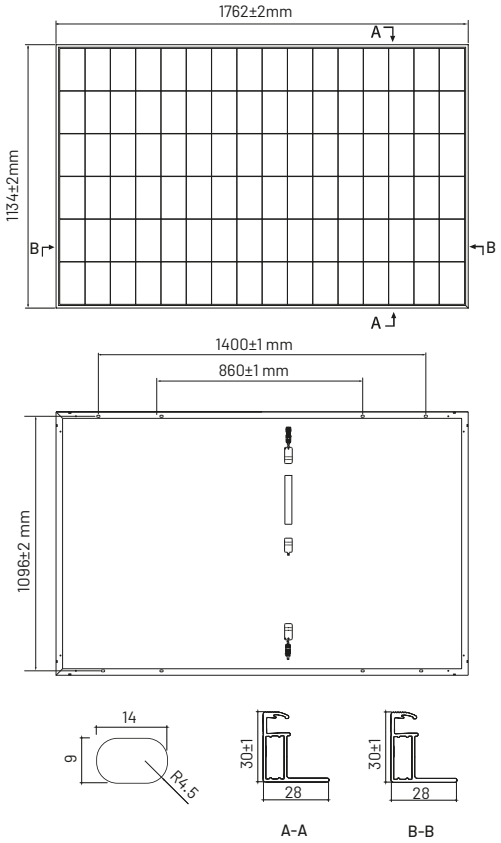
Application Condition s

Level T_{98} ≤ 70 °C	- 40 °C to + 70 °C*
Maximum System Voltage	1500 V DC (IEC)
Maximum Series Fuse Rating	30 A

*Short-term up to 85°C; higher operation requires IEC TS 63126 testing

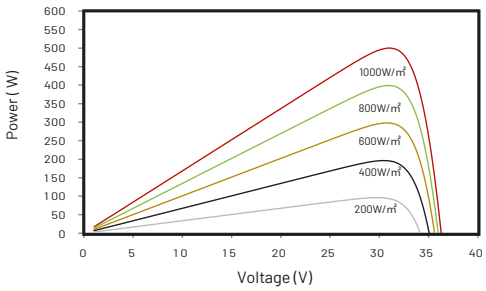
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Engineering Drawing s

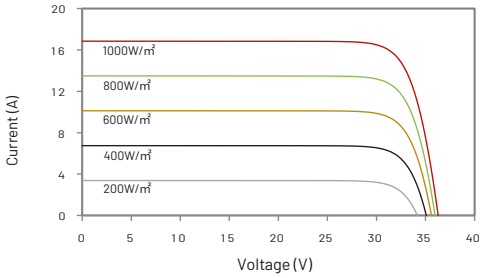


Electrical Performance

Power-Voltage Curves (48HL6M-DB 500W)



Current-Voltage Curves (48HL6M-DB 500W)



Made in China

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JKM480-510T-48HL6M-DB-F1C1-OC

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Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.