

Lightweight

60HL4-V

470-490 Watt

MONO-FACIAL MODULE

N-type



N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.



HOT 2.0 Technology

N-type modules with JinkoSolar's HOT 2.0 technology offer better reliability and efficiency.



Security and Reliability

25 mm hail resistance
Hurricane-proof



Mechanical Load Enhanced

4500 Pa front side max static test load
2400 Pa rear side max static test load with guide rail.



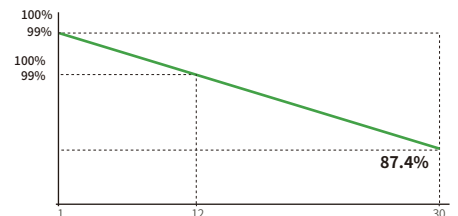
Construction Friendly

Assembled with bracket or adhesive, easy installation.



Versatile Applications

With a module weight of only 13.5kg, suitable for all kinds of rooftop applications, including low load bearing roofs.



12 Year Product Warranty	30 Year Linear Power Warranty	1% First-year Degradation	0.40% Annual Degradation Over 30 Years
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- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems



EU-JKBL470-490N-60HL4-V-F1-EN

60HL4-V 470-490W

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	120 (60×2)
Dimensions	1921×1148×7 mm
Weight	13.5 kg
Front Glass	1.6 mm, Heat strengthened Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Protection Class	Class II
Output Cables	4.0 mm ² (+): 1100 mm , (-): 1100 mm or Customized Length

Packaging Configuration

Pallet Dimentions	2042×1229×1350 mm
Packing Detail (Two pallets = One stack)	40 pcs/pallet, 80 pcs/stack 360 pcs/Container

Specifications (STC)

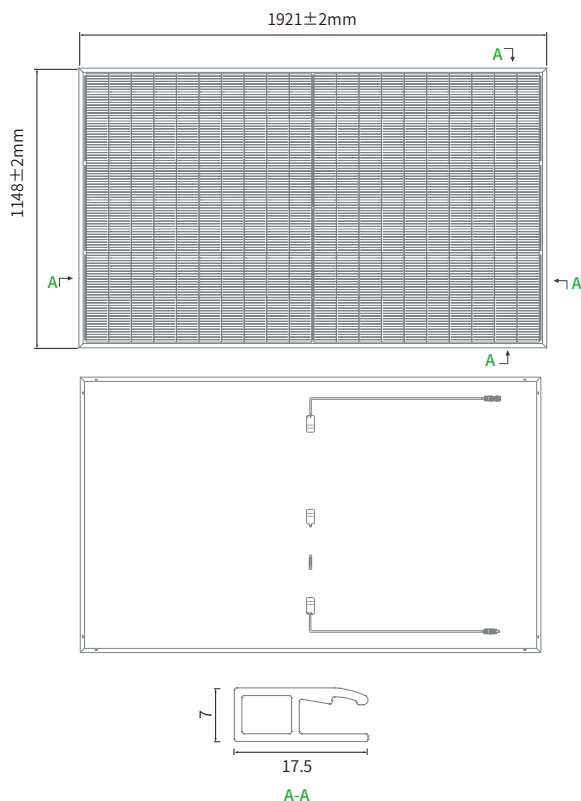
Maximum Power - Pmax [Wp]	470	475	480	485	490
Maximum Power Voltage - Vmp [V]	35.69	35.88	36.06	36.25	36.43
Maximum Power Current - Imp [A]	13.13	13.24	13.31	13.38	13.45
Open-circuit Voltage - Voc [V]	43.30	43.35	43.60	43.76	43.91
Short-circuit Current - Isc [A]	13.69	13.77	13.85	13.93	14.01
Module Efficiency STC [%]	21.31	21.54	21.77	21.99	22.22
Power Tolerance	0 ~ + 3 %				
Temperature Coefficients of Pmax	-0.29 %/°C				
Temperature Coefficients of Voc	-0.25 %/°C				
Temperature Coefficients of Isc	0.045 %/°C				

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

Application Conditions

Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Nominal Operating Cell	45 ± 2 °C

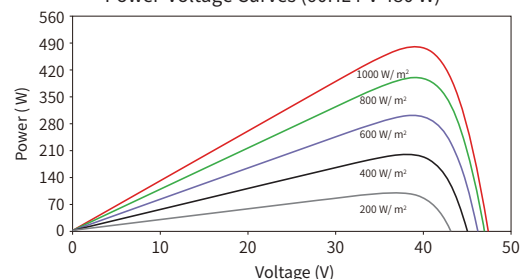
Engineering Drawings



Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

Power-Voltage Curves (60HL4-V 480 W)



Current-Voltage Curves (60HL4-V 480 W)

