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# Tiger Neo

# 54HL4R-B

## 425-445 Watt

MONO-FACIAL MODULE

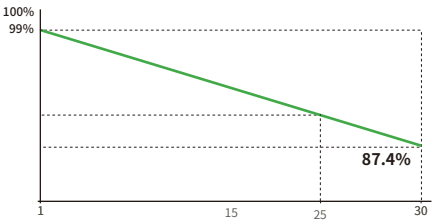
## N-type

### 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.




**25** Year Product Warranty | **30** Year Linear Power Warranty | **1**% First-year Degradation | **0.4**% Annual Degradation Over 30 Years

### Durability Against Extreme Environment

High salt mist and ammonia resistance.

### Mechanical Load Enhanced

Certified to withstand:
5400 Pa front side max static test load
2400 Pa rear side max static test load

- IEC61215 (2016) / IEC61730 (2016)
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.

### Anti-PID Guarantee

Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.

**JKM425-445N-54HL4R-B-F5-EN**

# 54HL4R-B 425-445 Watt

## Mechanical Characteristics

| | |
|---|---|
| Cell Type | N -type Mono-crystalline |
| No. of cells | 108（54×2） |
| Dimensions | 1762×1134×30mm |
| Weight | 21.0 kg |
| Front Glass | 3.2 mm, Anti-Reflection Coating,<br>High Transmission, Low Iron, Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68 Rated |
| Protection Class | Class II |
| IEC Fire Type | Class C |
| Output Cables | 4.0 mm²<br>(+): 400 mm , (-): 200 mm or Customized Length |

## Packaging Configuration

| | |
|---|---|
| Pallet Dimensions | 1792×1120×1249 mm |
| Packing Detail<br>( Two pallets = One stack ) | 36 pcs/pallets, 72 pcs/stack,<br>936 pcs/ 40'HQ Container |

## Specifications (STC)

| | | | | | |
|---|---|---|---|---|---|
| Maximum Power - Pmax [Wp] | 425 | 430 | 435 | 440 | 445 |
| Maximum Power Voltage - Vmp [V] | 32.37 | 32.58 | 32.78 | 32.99 | 33.19 |
| Maximum Power Current - Imp [A] | 13.13 | 13.20 | 13.27 | 13.34 | 13.41 |
| Open-circuit Voltage - Voc [V] | 38.95 | 39.16 | 39.36 | 39.57 | 39.77 |
| Short-circuit Current - Isc [A] | 13.58 | 13.65 | 13.72 | 13.80 | 13.87 |
| Module Efficiency STC [%] | 21.27 | 21.52 | 21.77 | 22.02 | 22.27 |
| 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

## Specifications (NOCT)

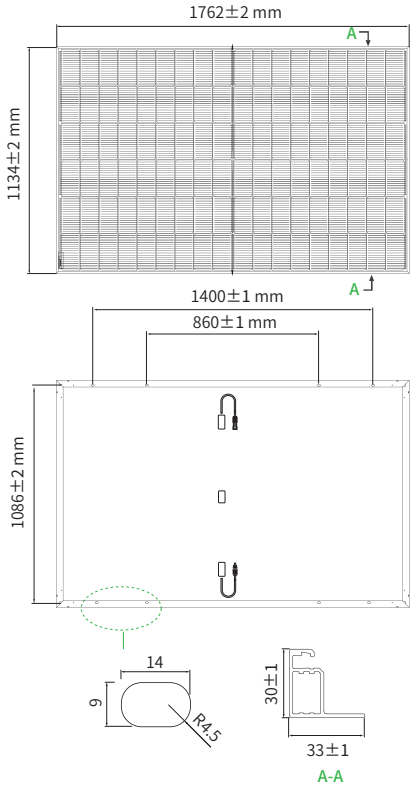
| | | | | | |
|---|---|---|---|---|---|
| Maximum Power - Pmax [Wp] | 320 | 323 | 327 | 331 | 335 |
| Maximum Power Voltage - Vmp [V] | 30.19 | 30.30 | 30.50 | 30.73 | 30.93 |
| Maximum Power Current - Imp [A] | 10.60 | 10.66 | 10.72 | 10.77 | 10.83 |
| Open-circuit Voltage - Voc [V] | 37.00 | 37.20 | 37.39 | 37.59 | 37.78 |
| Short-circuit Current - Isc [A] | 10.96 | 11.02 | 11.08 | 11.14 | 11.20 |

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

## Application Conditions

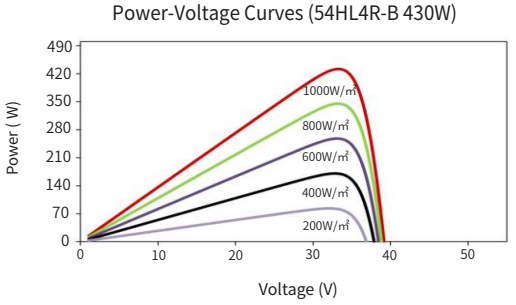
| | |
|---|---|
| Operating Temperature | -40 °C ~ +85 °C |
| Maximum System Voltage | 1000 VDC (IEC) |
| Maximum Series Fuse Rating | 25 A |
| Nominal Operating Cell Temperature - NOCT | 45±2 °C |

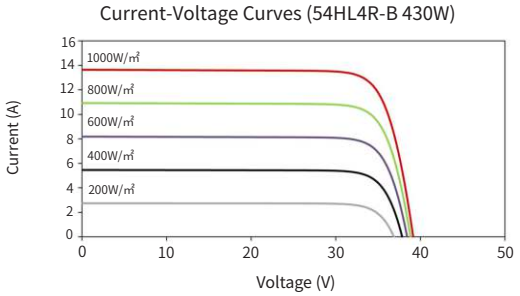
## Engineering Drawings




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

## Electrical Performance





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