

# 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.



### Durability Against Extreme Environment

High salt mist and ammonia resistance.



### SMBB Technology

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



### HOT 2.0 Technology

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



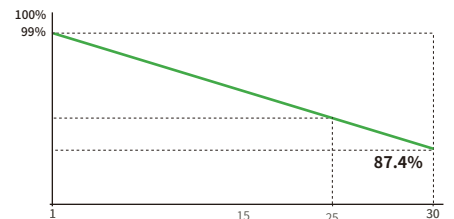
### Mechanical Load Enhanced

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



### Anti-PID Guarantee

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



**25 Year**  
Product Warranty

**30 Year**  
Linear Power  
Warranty

**1%**  
First-year  
Degradation

**0.4%**  
Annual Degradation  
Over 30 Years

- 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



**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 mm <sup>2</sup><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/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Specifications (NOCT)

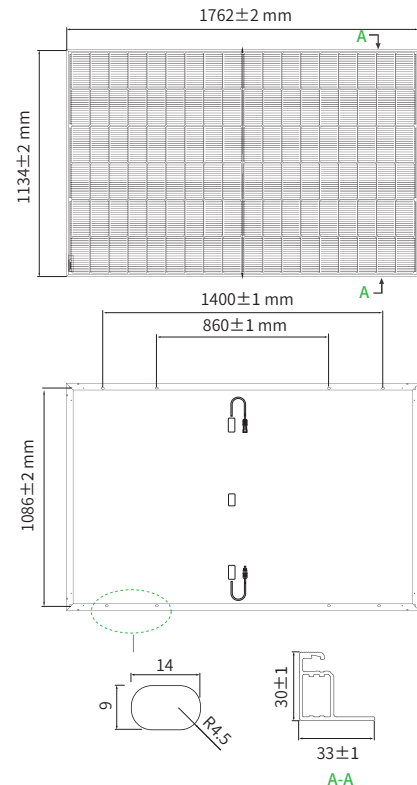
|                                 |       |       |       |       |       |
|---------------------------------|-------|-------|-------|-------|-------|
| Maximum Power - Pmax [Wp]       | 320   | 323   | 327   | 331   | 335   |
| Maximum Power Voltage - Vmp [V] | 30.19 | 30.30 | 30.50 | 30.73 | 30.93 |
| 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/m<sup>2</sup>, 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       |

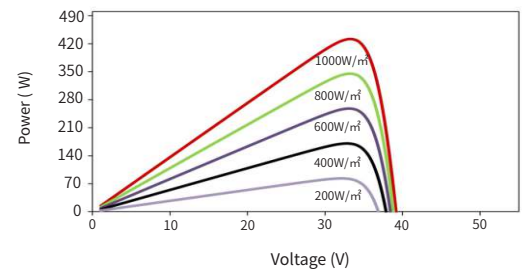
## Engineering Drawings



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

## Electrical Performance

Power-Voltage Curves (54HL4R-B 430W)



Current-Voltage Curves (54HL4R-B 430W)

