

# Tiger Neo N-type

## 78HL4-BDV

### 605-625 Watt

BIFACIAL MODULE WITH  
DUAL GLASS

#### N-Type

Positive power tolerance of 0~+3%

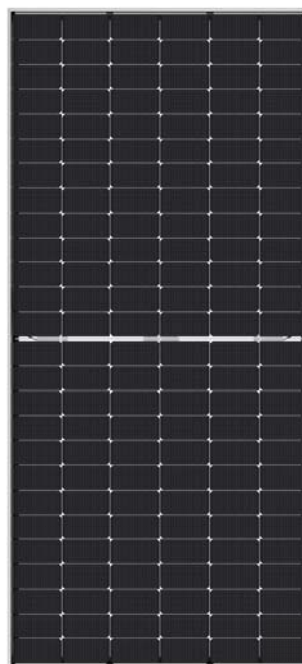
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



## Key Features



#### SMBB Technology

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



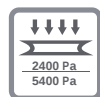
#### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



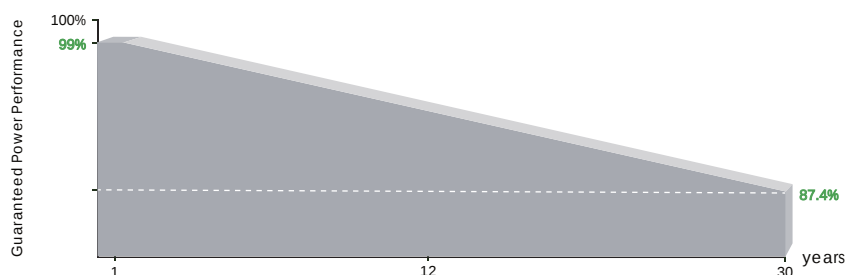
#### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



Continuous Quality Assurance

## LINEAR PERFORMANCE WARRANTY

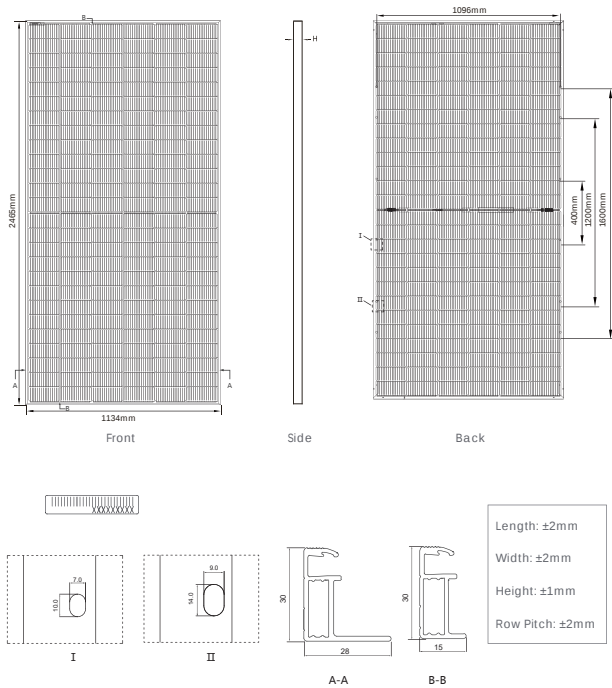


**12** Year Product Warranty

**30** Year Linear Power Warranty

**0.40%** Annual Degradation Over 30 years

## Engineering Drawings

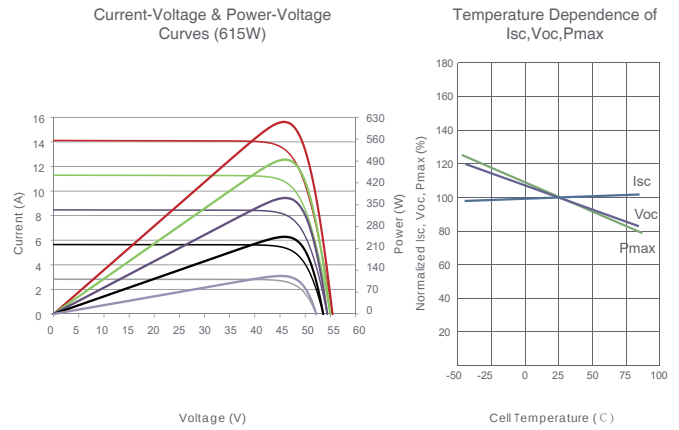


## Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 576pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

|               |                                                                         |
|---------------|-------------------------------------------------------------------------|
| Cell Type     | N type Mono-crystalline                                                 |
| No. of cells  | 156 (2×78)                                                              |
| Dimensions    | 2465×1134×30mm (97.05×44.65×1.18 inch)                                  |
| Weight        | 34.6kg (76.38 lbs)                                                      |
| Front Glass   | 2.0mm, Anti-Reflection Coating                                          |
| Back Glass    | 2.0mm, Heat Strengthened Glass                                          |
| Frame         | Anodized Aluminium Alloy                                                |
| Junction Box  | IP68 Rated                                                              |
| Output Cables | TUV 1×4.0mm <sup>2</sup><br>(+): 400mm, (-): 200mm or Customized Length |

## SPECIFICATIONS

| Module Type                               | JKM605N-78HL4-BDV |        | JKM610N-78HL4-BDV |        | JKM615N-78HL4-BDV |        | JKM620N-78HL4-BDV |        | JKM625N-78HL4-BDV |        |
|-------------------------------------------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|
|                                           | STC               | NOCT   | STC               | NOCT   | STC               | NOCT   | STC               | NOCT   | STC               | NOCT   |
| Maximum Power (Pmax)                      | 605Wp             | 455Wp  | 610Wp             | 459Wp  | 615Wp             | 462Wp  | 620Wp             | 466Wp  | 625Wp             | 470Wp  |
| Maximum Power Voltage (Vmp)               | 45.42V            | 42.23V | 45.60V            | 42.35V | 45.77V            | 42.46V | 45.93V            | 42.57V | 46.10V            | 42.68V |
| Maximum Power Current (Imp)               | 13.32A            | 10.77A | 13.38A            | 10.83A | 13.44A            | 10.89A | 13.50A            | 10.95A | 13.56A            | 11.01A |
| Open-circuit Voltage (Voc)                | 55.17V            | 52.41V | 55.31V            | 52.54V | 55.44V            | 52.66V | 55.58V            | 52.79V | 55.72V            | 52.93V |
| Short-circuit Current (Isc)               | 13.95A            | 11.26A | 14.03A            | 11.33A | 14.11A            | 11.39A | 14.19A            | 11.46A | 14.27A            | 11.52A |
| Module Efficiency STC (%)                 | 21.64%            |        | 21.82%            |        | 22.00%            |        | 22.18%            |        | 22.36%            |        |
| Operating Temperature(°C)                 | -40°C~+85°C       |        |                   |        |                   |        |                   |        |                   |        |
| Maximum system voltage                    | 1500VDC (IEC)     |        |                   |        |                   |        |                   |        |                   |        |
| Maximum series fuse rating                | 30A               |        |                   |        |                   |        |                   |        |                   |        |
| Power tolerance                           | 0~+3%             |        |                   |        |                   |        |                   |        |                   |        |
| Temperature coefficients of Pmax          | -0.30%/°C         |        |                   |        |                   |        |                   |        |                   |        |
| Temperature coefficients of Voc           | -0.25%/°C         |        |                   |        |                   |        |                   |        |                   |        |
| Temperature coefficients of Isc           | 0.046%/°C         |        |                   |        |                   |        |                   |        |                   |        |
| Nominal operating cell temperature (NOCT) | 45±2°C            |        |                   |        |                   |        |                   |        |                   |        |
| Refer. Bifacial Factor                    | 80±5%             |        |                   |        |                   |        |                   |        |                   |        |

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

|     |                             | JKM605N-78HL4-BDV | JKM610N-78HL4-BDV | JKM615N-78HL4-BDV | JKM620N-78HL4-BDV | JKM625N-78HL4-BDV |
|-----|-----------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 5%  | Maximum Power ( $P_{max}$ ) | 635Wp             | 641Wp             | 646Wp             | 651Wp             | 656Wp             |
|     | Module Efficiency STC (%)   | 22.73%            | 22.91%            | 23.10%            | 23.29%            | 23.48%            |
| 15% | Maximum Power ( $P_{max}$ ) | 696Wp             | 702Wp             | 707Wp             | 713Wp             | 719Wp             |
|     | Module Efficiency STC (%)   | 24.89%            | 25.10%            | 25.30%            | 25.51%            | 25.71%            |
| 25% | Maximum Power ( $P_{max}$ ) | 756Wp             | 763Wp             | 769Wp             | 775Wp             | 781Wp             |
|     | Module Efficiency STC (%)   | 27.05%            | 27.28%            | 27.50%            | 27.73%            | 27.95%            |

\*STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C

NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C

AM=1.5

AM=1.5

Wind Speed 1m/s