

# TigerNeo N-type

## 60HL4-(V)

### 460-480 Watt

#### MONO-FACIAL MODULE

#### N-Type

Positive power tolerance of 0~+3%

IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality Management System

ISO 14001:2015: Environment Management System

ISO 45001:2018

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/LETD.



#### 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).

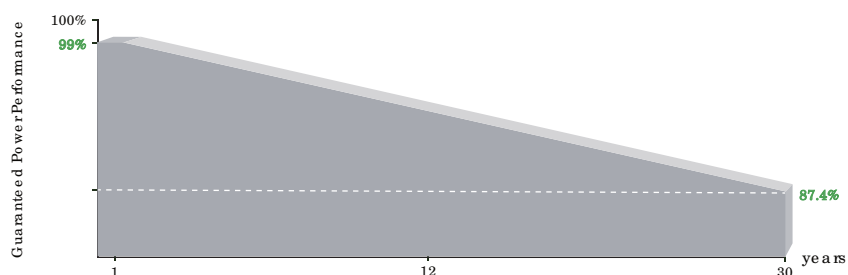


#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



## LINEAR PERFORMANCE WARRANTY

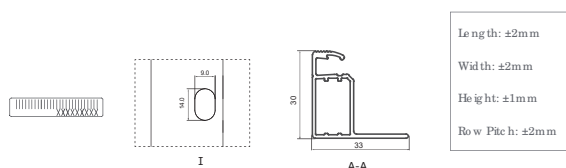
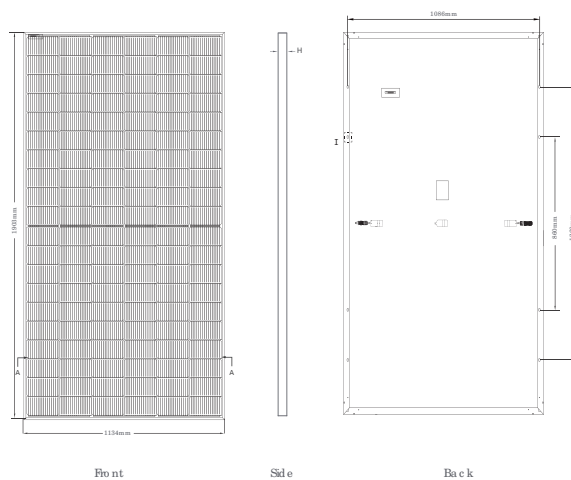


**12** Year Product Warranty

**30** Year Linear Power Warranty

**0.40%** Annual Degradation Over 30 years

## Engineering Drawings

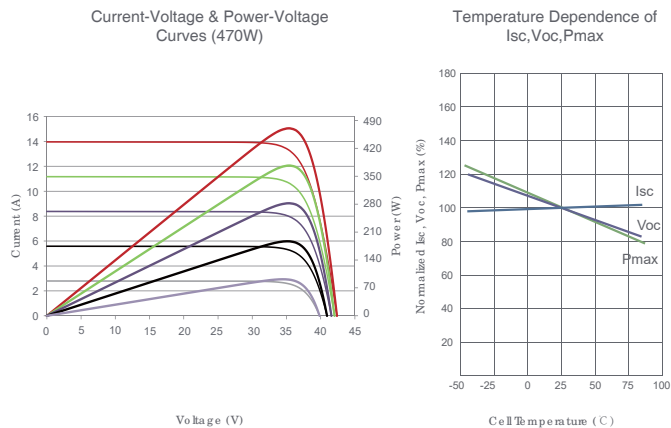


## Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 864pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type N type Mono-crystalline

No. of cells 120 (6×20)

Dimensions 1903×1134×30mm (74.92×44.65×1.18 inch)

Weight 24.2 kg (53.35 lbs)

Front Glass 3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass

Frame Anodized Aluminium Alloy

Junction Box IP68 Rated

Output Cables TUV 1×4.0mm<sup>2</sup>  
 (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

| Module Type                               | JKM460N-60HL4<br>JKM460N-60HL4-V |        | JKM465N-60HL4<br>JKM465N-60HL4-V |        | JKM470N-60HL4<br>JKM470N-60HL4-V |        | JKM475N-60HL4<br>JKM475N-60HL4-V |        | JKM480N-60HL4<br>JKM480N-60HL4-V |        |
|-------------------------------------------|----------------------------------|--------|----------------------------------|--------|----------------------------------|--------|----------------------------------|--------|----------------------------------|--------|
|                                           | STC                              | NOCT   | STC                              | NOCT   | STC                              | NOCT   | STC                              | NOCT   | STC                              | NOCT   |
| Maximum Power (Pmax)                      | 460Wp                            | 346Wp  | 465Wp                            | 350Wp  | 470Wp                            | 353Wp  | 475Wp                            | 357Wp  | 480Wp                            | 361Wp  |
| Maximum Power Voltage (Vmp)               | 34.72V                           | 32.60V | 34.89V                           | 32.77V | 35.05V                           | 32.94V | 35.21V                           | 33.10V | 35.38V                           | 33.27V |
| Maximum Power Current (Imp)               | 13.25A                           | 10.61A | 13.33A                           | 10.67A | 13.41A                           | 10.73A | 13.49A                           | 10.79A | 13.57A                           | 10.85A |
| Open-circuit Voltage (Voc)                | 42.05V                           | 39.94V | 42.22V                           | 40.10V | 42.38V                           | 40.25V | 42.54V                           | 40.41V | 42.71V                           | 40.57V |
| Short-circuit Current (Isc)               | 13.99A                           | 11.29A | 14.07A                           | 11.36A | 14.15A                           | 11.42A | 14.23A                           | 11.49A | 14.31A                           | 11.55A |
| Module Efficiency STC (%)                 | 21.32%                           |        | 21.55%                           |        | 21.78%                           |        | 22.01%                           |        | 22.24%                           |        |
| Operating Temperature (°C)                | -40°C~-+85°C                     |        |                                  |        |                                  |        |                                  |        |                                  |        |
| Maximum system voltage                    | 1000/1500VDC (IEC)               |        |                                  |        |                                  |        |                                  |        |                                  |        |
| Maximum series fuse rating                | 25A                              |        |                                  |        |                                  |        |                                  |        |                                  |        |
| 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                           |        |                                  |        |                                  |        |                                  |        |                                  |        |

\*STC: Irradiance 1000W/m<sup>2</sup>

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup>

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s