

Tiger Neo N-type 60HL4-(V) 460-480 Watt MONO-FACIAL MODULE

N-Type

Positive power tolerance of 0~+3%

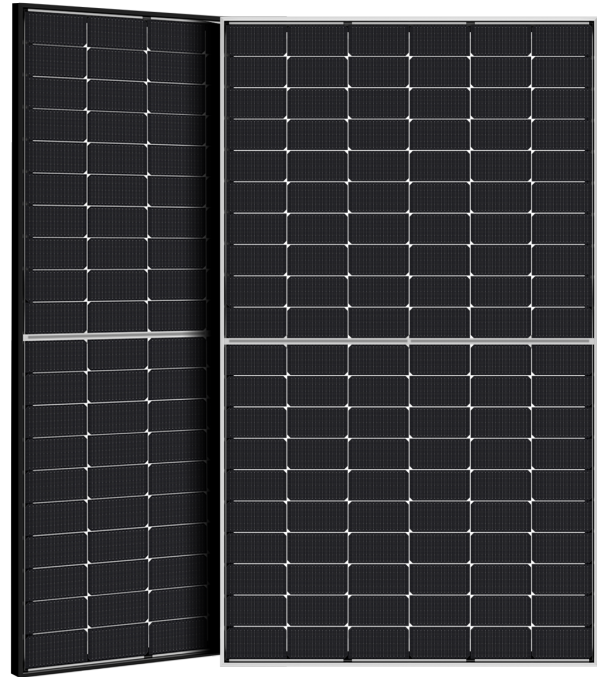
IEC61215(2016), IEC61730(2016)

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.



PID Resistance

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



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Hot 2.0 Technology

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

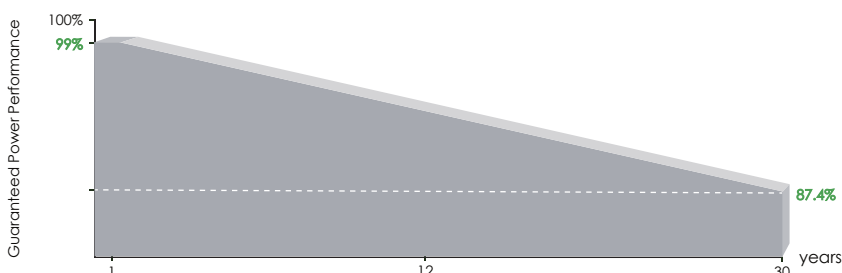


Enhanced Mechanical Load

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



LINEAR PERFORMANCE WARRANTY

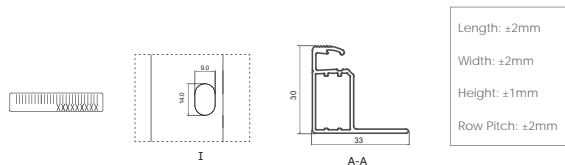
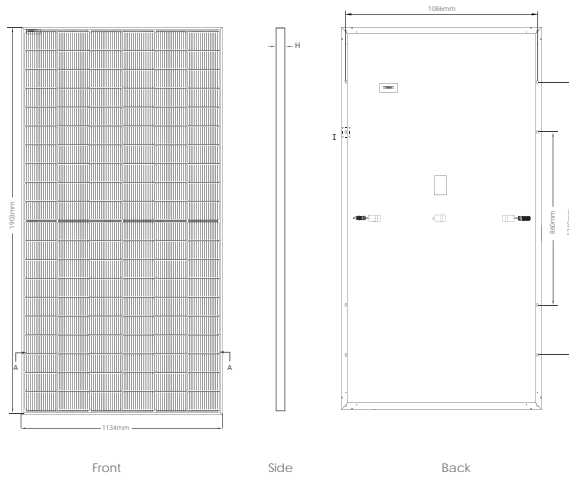


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings

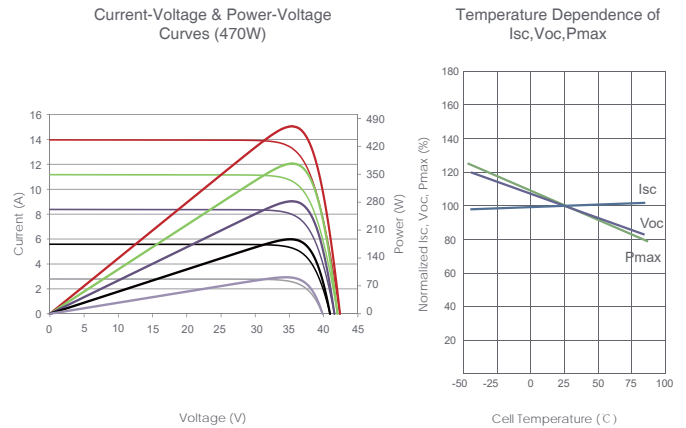


Packaging Configuration

(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 ² (+): 400mm, (-): 200mm or Customized Length |

SPECIFICATIONS

| Module Type | JKM460N-60HL4 | | JKM465N-60HL4 | | JKM470N-60HL4 | | JKM475N-60HL4 | | JKM480N-60HL4 | |
|---|--------------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
| | 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 | -0.29%/°C | | | | | | | | | |
| Temperature coefficients of Voc | -0.25%/°C | | | | | | | | | |
| Temperature coefficients of Isc | 0.045%/°C | | | | | | | | | |
| Nominal operating cell temperature (NOCT) | 45±2°C | | | | | | | | | |

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5
 NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

Energynat Trade Ltd is part of the Energynat Group, one of the fastest-growing European companies in the field of renewable energies. Annually, the Energynat Group supplies over 500 MW of components for the photovoltaic industry in Europe.

Energynat is a direct importer and authorized distributor of high quality photovoltaic components from such brands as SOFAR, Sungrow, JinkoSolar, Astronergy, Sunpower and SolarEdge. We specialize in wholesale distribution of panels and inverters. We fulfill megawatt orders on the spot, providing comprehensive logistics and warehousing services. And much more.

Our operational offices are based in Poland, Germany and United Kingdom.



More than just top quality brands and best prices



ADDITIONAL BENEFITS

Flexible warehousing

We know that flexibility is important in cooperation. All customers who belong to the Energynat Business Partner program have the option of using flexible warehousing, which allows them to postpone the immediate pick-up of their orders, and warehousing is FREE*.



ADDITIONAL BENEFITS

Logistics PLUS

Logistics PLUS is a service dedicated to participants of the Energynat Business Partner program, under which our regular customers receive comprehensive logistics support for their orders. All you need to do is indicate where and when the purchased goods are to be delivered.



ADDITIONAL BENEFITS

Fast transport & instant availability

When every day counts? It's always important in business! Thanks to our extensive network of warehouses in Europe and reliable shipping partners, our customers can count on express deliveries, even within 72 hours.



ADDITIONAL BENEFITS

Mix-it and Profit

It's cheaper when you mix it. It's as clear as day. With Energynat you can place an order for a mix of products in a 1-plus-1 formula, and we will give you a special price for your entire order. We also mix purchases of inverters and panels. When purchasing inverters in a package with panels, you will receive a special price for modules with a power corresponding to the purchased inverters.

BIG discounts on MEGAWATTS

Big DISCOUNTS on MEGAWATTS is a special offer from Energynat Trade aimed at our loyal customers: contractors, distributors, and electrical wholesalers looking for a reliable partner who can guarantee stability and timely deliveries as well as favorable terms of cooperation.

