

REGIONE BASILICATA



COMUNE DI GRASSANO



IMPIANTO AGROVOLTAICO

PROGETTO REALIZZAZIONE IMPIANTO AGRIVOLTAICO E RELATIVE OPERE DI CONNESSIONE IN AGRO DI GRASSANO E GARAGUSO – MT LOCALITÀ PIANO FOCACCIA

POTENZA NOMINALE 19,99 MW

Schema funzionale pannelli

COMMITTENTE

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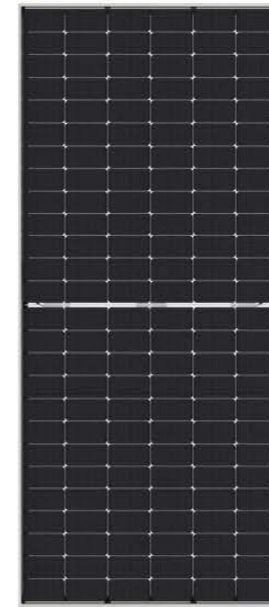
DATA: OTTOBRE 2023

Rev n°1

www.jinkosolar.com



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).

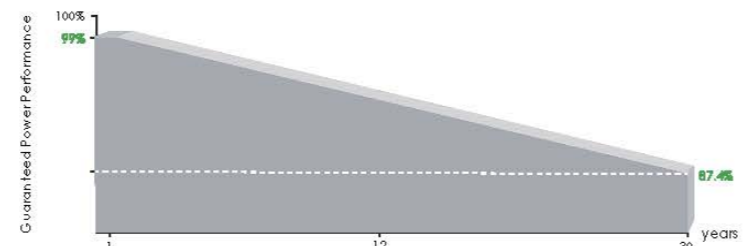


Higher Power Output

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



LINEAR PERFORMANCE WARRANTY

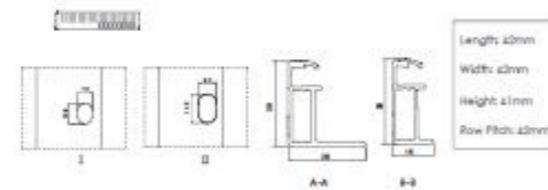
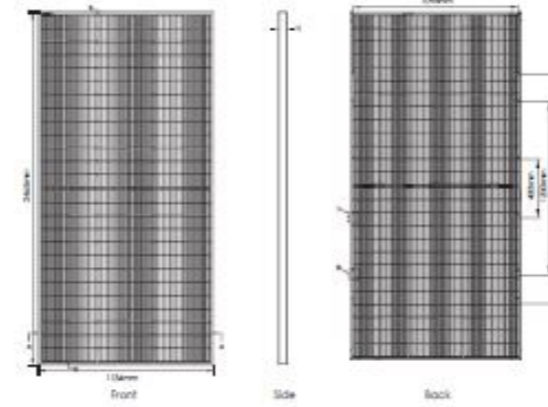


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

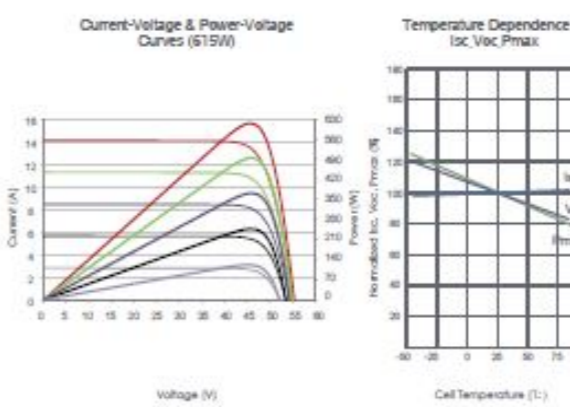
Engineering Drawings



Packaging Configuration

[Two pallets = One stack]
36pcs/pallet, 72pcs/stack, 576pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

| | |
|---------------|--|
| Cell Type | N type Mono-crystalline |
| No. of cells | 156 (2x78) |
| Dimensions | 2445x1134x30mm (97.05x44.65x1.18 inch) |
| Weight | 34.6kg (76.38 lbs) |
| Front Glass | 2.0mm, Anti-Reflection Coating |
| Back Glass | 2.0mm, Heat Strengthened Glass |
| Frame | Anodized Aluminum Alloy |
| Junction Box | IP68 Rated |
| Output Cables | TUV 1x4.0mm ² [-]: 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 | -0.29%/°C | | | | | | | | | |
| Temperature coefficients of Voc | -0.25%/°C | | | | | | | | | |
| Temperature coefficients of Isc | 0.045%/°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 (Pmax) | 635Wp | 641Wp | 646Wp | 651Wp | 656Wp |
| | Module Efficiency STC (%) | 22.73% | 22.91% | 23.10% | 23.29% | 23.48% |
| 15% | Maximum Power (Pmax) | 696Wp | 702Wp | 707Wp | 713Wp | 719Wp |
| | Module Efficiency STC (%) | 24.89% | 25.10% | 25.30% | 25.51% | 25.71% |
| 25% | Maximum Power (Pmax) | 756Wp | 763Wp | 769Wp | 775Wp | 781Wp |
| | Module Efficiency STC (%) | 27.05% | 27.28% | 27.50% | 27.73% | 27.95% |

*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

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Specifications included in this datasheet are subject to change without notice.

JKM605-625N-78HL4-BDV-F4-BN

SUN2000-330KTL-H1
Technical Specifications

| Efficiency | |
|--|---------------------------------------|
| Max. Efficiency | ≥99.0% |
| European Efficiency | ≥98.8% |
| Input | |
| Max. Input Voltage | 1,500 V |
| Number of MPP Trackers | 6 |
| Max. Current per MPPT | 65 A |
| Max. Short Circuit Current per MPPT | 115 A |
| Max. PV Inputs per MPPT | 4/5/4/5/5 |
| Start Voltage | 550 V |
| MPPT Operating Voltage Range | 500 V ~ 1,500 V |
| Nominal Input Voltage | 1,080 V |
| Output | |
| Nominal AC Active Power | 300,000 W |
| Max. AC Apparent Power | 330,000 VA |
| Max. AC Active Power (cosφ=1) | 330,000 W |
| Nominal Output Voltage | 800 V, 3W + PE |
| Rated AC Grid Frequency | 50 Hz / 60 Hz |
| Nominal Output Current | 216.6 A |
| Max. Output Current | 238.2 A |
| Adjustable Power Factor Range | 0.8 LG ... 0.8 LD |
| Total Harmonic Distortion | < 1% |
| Protection | |
| Smart String-Level Disconnect(SSLD) | Yes |
| Anti-Islanding Protection | Yes |
| AC Overcurrent Protection | Yes |
| DC Reverse-polarity Protection | Yes |
| PV-array String Fault Monitoring | Yes |
| DC Surge Arrester | Type II |
| AC Surge Arrester | Type II |
| DC Insulation Resistance Detection | Yes |
| AC Grounding Fault Protection | Yes |
| Residual Current Monitoring Unit | Yes |
| Communication | |
| Display | LED Indicators, WLAN + APP |
| USB | Yes |
| MBUS | Yes |
| RS485 | Yes |
| General | |
| Dimensions (W x H x D) | 1,048 x 732 x 395 mm |
| Weight (with mounting plate) | ≤112 kg |
| Operating Temperature Range | -25 °C ~ 60 °C |
| Cooling Method | Smart Air Cooling |
| Max. Operating Altitude without Derating | 4,000 m (13,123 ft.) |
| Relative Humidity | 0 ~ 100% |
| AC Connector | Waterproof Connector + OT/DT Terminal |
| Protection Degree | IP66 |
| Topology | Transformerless |

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