www.jinkosolar.com

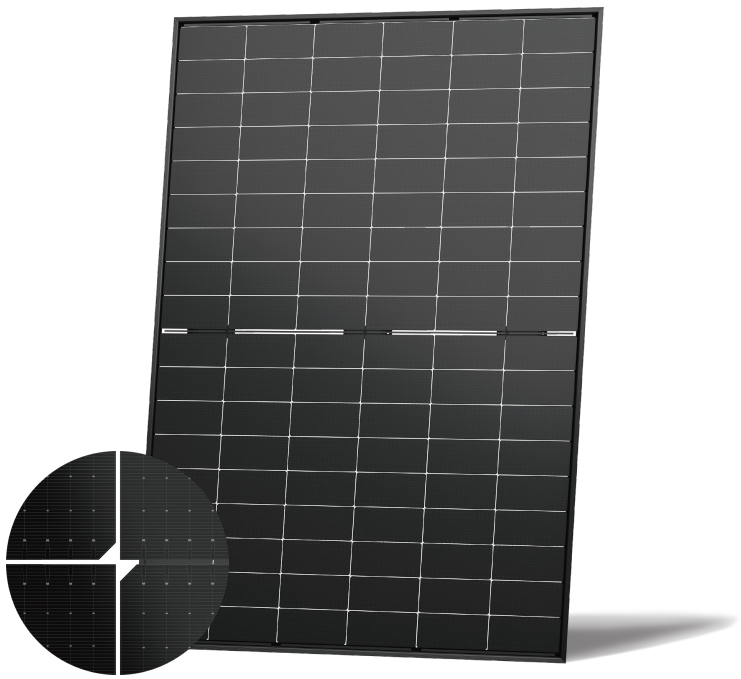
Tiger Neo

54HL4R-BDB

425-450 Watt

BIFACIAL TRANSPARENT-BLACK MODULE WITH DUAL GLASS

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.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.

Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

Mechanical Load Enhanced

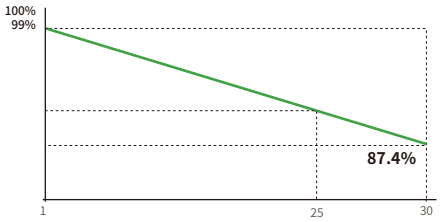
Certified to withstand:
6000 Pa front side max static test load
4000 Pa rear side max static test load

SMBB Technology

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

Anti-PID Guarantee

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



25Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

CLEAN ENERGY COUNCIL MEMBER

POSITIVE QUALITY™ Continuous Quality Assurance

JKM425-450N-54HL4R-BDB-F4-EN

AVIN

54HL4R-BDB 425-450 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	108 (54×2)
Dimensions	1762×1134×30 mm
Weight	24.5 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/MC4/Others
Output Cables	4.0 mm² (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimentions	1792×1140×1249 mm
Packing Detail (Two pallets = One stack)	37 pcs/pallets, 74 pcs/stack, 962 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	425	430	435	440	445	450
Maximum Power Voltage - Vmp [V]	32.90	33.08	33.26	33.44	33.61	33.79
Maximum Power Current - Imp [A]	12.92	13.00	13.08	13.16	13.24	13.32
Open-circuit Voltage - Voc [V]	39.23	39.43	39.63	39.83	40.03	40.23
Short-circuit Current - Isc [A]	13.77	13.84	13.91	13.98	14.05	14.12
Module Efficiency STC [%]	21.27	21.52	21.77	22.02	22.27	22.52
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/m², Cell Temperature 25°C, AM=1.5

Specifications (BNPI)

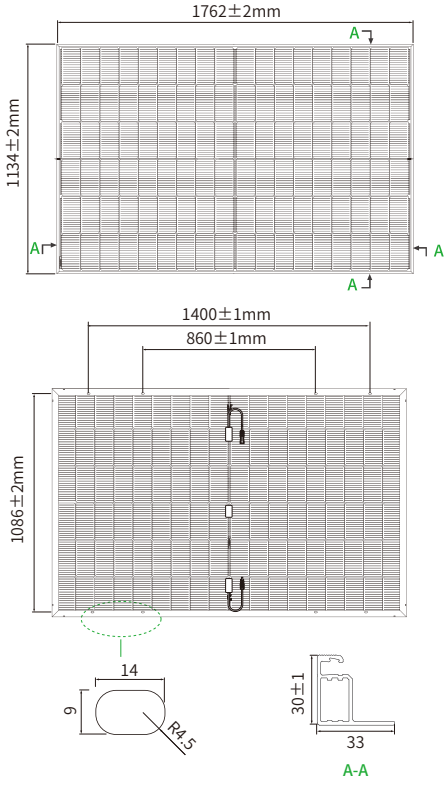
Maximum Power - Pmax [Wp]	469	474	480	485	491	496
Maximum Power Voltage - Vmp [V]	32.91	33.06	33.26	33.41	33.61	33.76
Maximum Power Current - Imp [A]	14.25	14.34	14.43	14.52	14.60	14.69
Open-circuit Voltage - Voc [V]	39.23	39.43	39.63	39.83	40.03	40.23
Short-circuit Current - Isc [A]	15.16	15.24	15.32	15.40	15.48	15.56

BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5

Application Conditions

Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Bifaciality Coefficent	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %

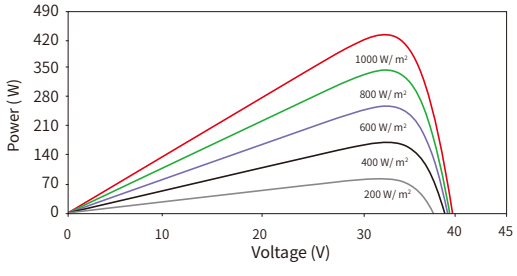
Engineering Drawings



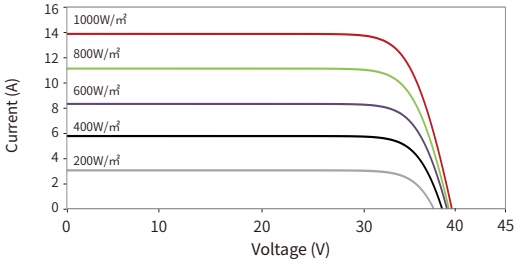
*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

Power-Voltage Curves (54HL4R-BDB 440W)



Current-Voltage Curves (54HL4R-BDB 440W)



Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

www.jinkosolar.com

Tiger Neo

54HL4R-B

430-455 Watt

ALL BLACK MONO-FACIAL MODULE

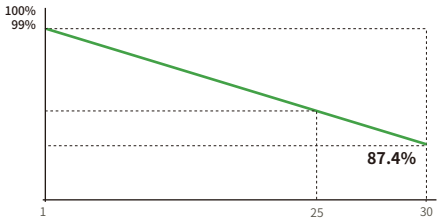
N-type

N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



25Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

Durability Against Extreme Environment

High salt mist and ammonia resistance.

Mechanical Load Enhanced

Certified to withstand:
6000 Pa front side max static test load
4000 Pa rear side max static test load

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID guarantee

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

CLEAN ENERGY COUNCIL MEMBER

POSITIVE QUALITY™ Continuous Quality Assurance

JKM430-455N-54HL4R-B-F8-EN

AVIN

54HL4R-B 430-455 Watt

Mechanical Characteristics

Cell Type	N -type Mono-crystalline
No. of cells	108 (54×2)
Dimensions	1762×1134×30 mm
Weight	21.0 kg
Front Glass	3.2mm, Anti-reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/MC4/Others
Output Cables	4.0 mm^2 (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimensions	1792×1140×1249 mm
Packing detail (Two pallets=One stack)	37 pcs/pallets, 74 pcs/stack, 962 pcs/ 40'HQ Container

Specifications (STC)

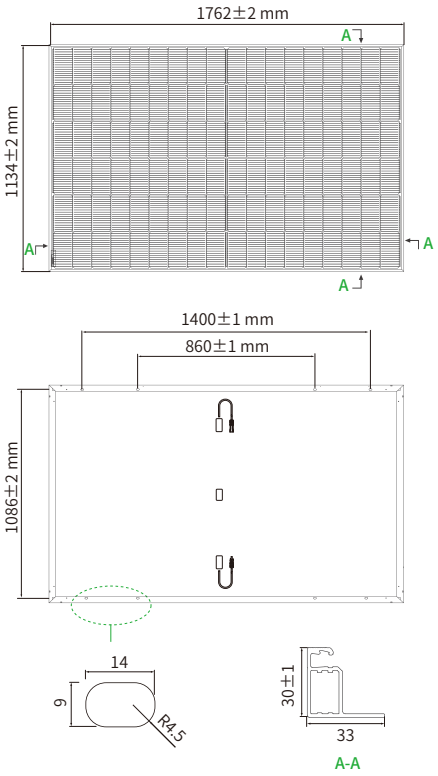
Maximum Power – Pmax [Wp]	430	435	440	445	450	455
Maximum Power Voltage – Vmp [V]	32.58	32.78	32.99	33.19	33.39	33.58
Maximum Power Current – Imp [A]	13.20	13.27	13.34	13.41	13.48	13.55
Open-circuit Voltage – Voc [V]	39.16	39.36	39.57	39.77	39.97	40.17
Short-circuit Current – Isc [A]	13.65	13.72	13.80	13.87	13.94	14.01
Module Efficiency STC [%]	21.52	21.77	22.02	22.27	22.52	22.77
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^2, Cell Temperature 25°C, AM=1.5

Application Conditions

Operating Temperature	-40 °C ~ +70°C
Maximum System Voltage	1000 VDC (IEC)
Maximum Series Fuse Rating	25 A

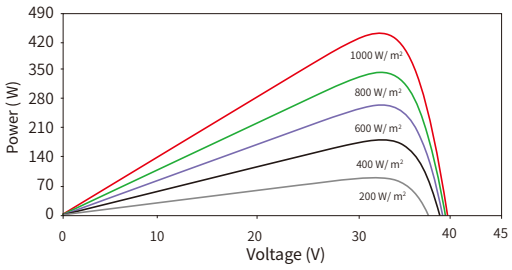
Engineering Drawings



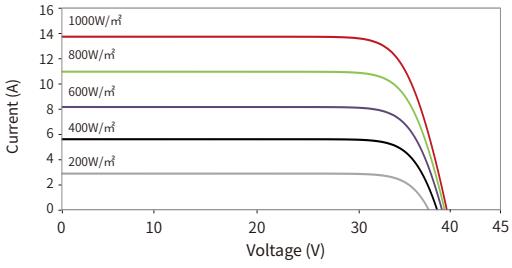
*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

Power-Voltage Curves (54HL4R-B 445W)



Current-Voltage Curves (54HL4R-B 445W)



Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

www.jinkosolar.com

Tiger Neo

54HL4R-(V)

435-460 Watt

MONO-FACIAL MODULE

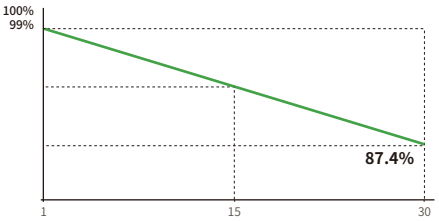
N-type

N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



15Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

Durability Against Extreme Environment

High salt mist and ammonia resistance.

Mechanical Load Enhanced

Certified to withstand:
6000 Pa front side max static test load
4000 Pa rear side max static test load

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID Guarantee

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

JKM435-460N-54HL4R-(V)-F8-EN

AVIN

54HL4R-(V) 435-460 Watt

Mechanical Characteristics

Cell Type	N -type Mono-crystalline
No. of cells	108 (54×2)
Dimensions	1762×1134×30 mm
Weight	21.0 kg
Front Glass	3.2mm, Anti-reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/MC4/Others
Output Cables	4.0 mm^2 (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimensions	1792×1140×1249 mm
Packing detail (Two pallets=One stack)	37 pcs/pallets, 74 pcs/stack, 962 pcs/ 40'HQ Container

Specifications (STC)

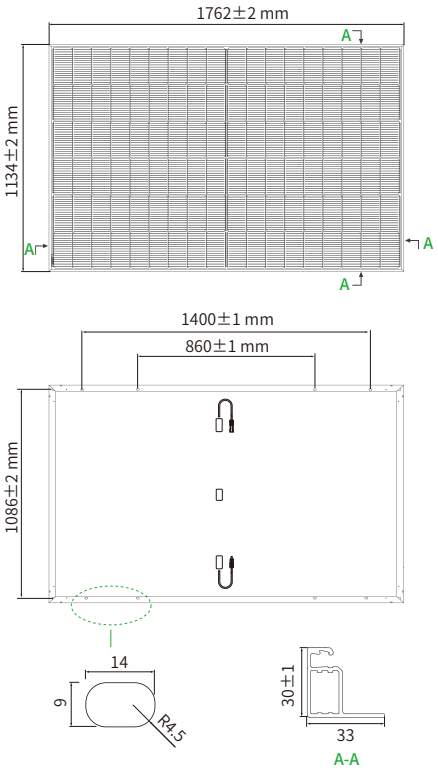
Maximum Power – Pmax [Wp]	435	440	445	450	455	460
Maximum Power Voltage – Vmp [V]	32.59	32.81	33.02	33.21	33.41	33.60
Maximum Power Current – Imp [A]	13.35	13.41	13.48	13.55	13.62	13.69
Open-circuit Voltage – Voc [V]	39.16	39.38	39.59	39.78	39.98	40.17
Short-circuit Current – Isc [A]	13.80	13.86	13.93	14.00	14.07	14.14
Module Efficiency STC [%]	21.77	22.02	22.27	22.52	22.77	23.02
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^2, Cell Temperature 25°C, AM=1.5

Application Conditions

Operating Temperature	-40 °C ~ +70°C
Maximum System Voltage	1000/1500 VDC (IEC)
Maximum Series Fuse Rating	25 A

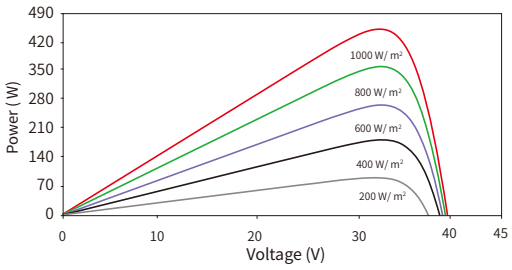
Engineering Drawings



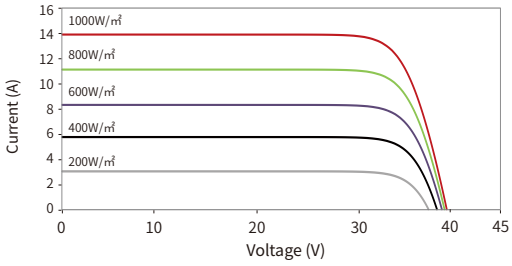
*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

Power-Voltage Curves (54HL4R-(V) 450W)



Current-Voltage Curves (54HL4R-(V) 450W)



Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

www.jinkosolar.com

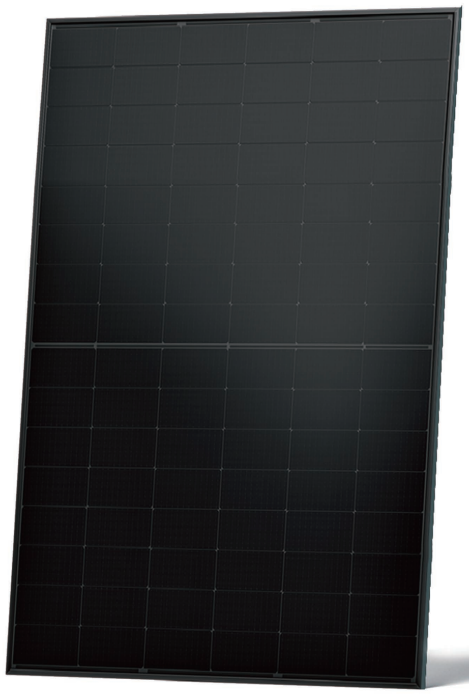
TIGER Neo

48HL4M-DB

450-475 Watt

ALL BLACK MONO-FACIAL MODULE
WITH DUAL GLASS

N-type

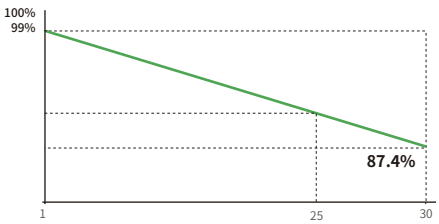


N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPCon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



25Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

Durability Against Extreme Environment

High salt mist and ammonia resistance.

Mechanical Load Enhanced

Certified to withstand:
6000 Pa front side max static test load
4000 Pa rear side max static test load

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID Guarantee

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

JKM450-475N-48HL4M-DB-Z1-EN

AVIN

48HL4M-DB 450-475 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	96（48×2）
Dimensions	1762×1134×30 mm
Weight	24.0 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/JK03M2/Others*
Output Cables (Including Connector)	4.0 mm^2 (+): 400 mm , (-): 200 mm or Customized Length

* MC4 and MC4-EVO2 available upon request and subject to availability

Packaging Configuration

Pallet Dimensions	1792×1140×1249 mm
Packing Detail (Two pallets = One stack)	37 pcs/pallets, 74 pcs/stack, 962 pcs/ 40'HQ Container

Specifications (STC)

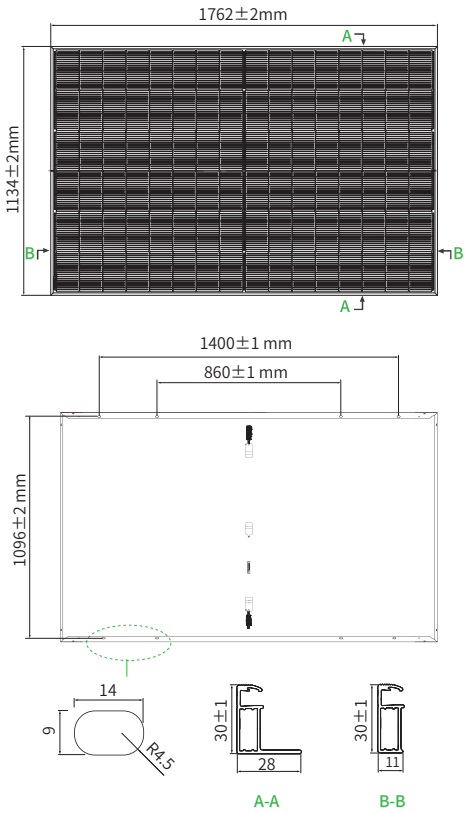
Maximum Power - Pmax [Wp]	450	455	460	465	470	475
Maximum Power Voltage - Vmp [V]	30.25	30.48	30.71	30.94	31.17	31.40
Maximum Power Current - Imp [A]	14.88	14.93	14.98	15.03	15.08	15.13
Open-circuit Voltage - Voc [V]	36.04	36.21	36.38	36.55	36.72	36.89
Short-circuit Current - Isc [A]	15.76	15.81	15.86	15.91	15.96	16.01
Module Efficiency STC [%]	22.52	22.77	23.02	23.27	23.52	23.77
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^2, Cell Temperature 25°C, AM=1.5

Application Conditions

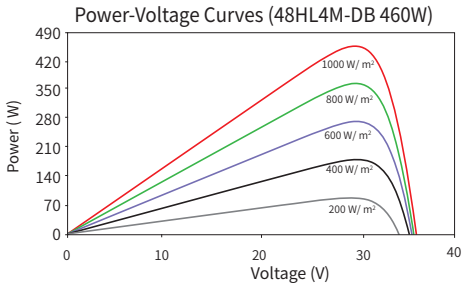
Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A

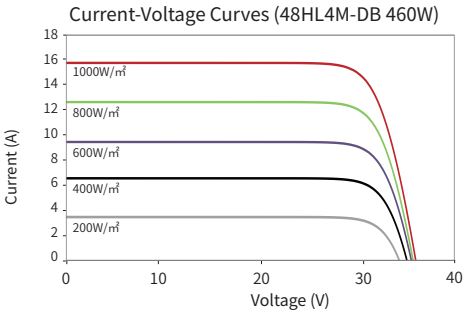
Engineering Drawings



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

Electrical Performance





Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

www.jinkosolar.com

Tiger Neo

48HL4M-DV

450-475 Watt

MONO-FACIAL MODULE
WITH DUAL GLASS

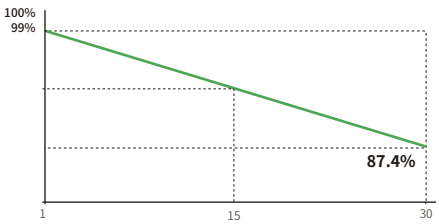
N-type

N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPCon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



15Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

Mechanical Load Enhanced

Certified to withstand:
6000 Pa front side max static test load
4000 Pa rear side max static test load

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID Guarantee

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

CLEAN ENERGY COUNCIL MEMBER

POSITIVE QUALITY™ Continuous Quality Assurance

JKM450-475N-48HL4M-DV-Z1-EN

AVIN

48HL4M-DV 450-475 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	96（48×2）
Dimensions	1762×1134×30 mm
Weight	24.0 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/JK03M2/Others*
Output Cables (Including Connector)	4.0 mm^2 (+): 400 mm , (-): 200 mm or Customized Length

* MC4 and MC4-EVO2 available upon request and subject to availability

Packaging Configuration

Pallet Dimensions	1792×1140×1249 mm
Packing Detail (Two pallets = One stack)	37 pcs/pallets, 74 pcs/stack, 962 pcs/ 40'HQ Container

Specifications (STC)

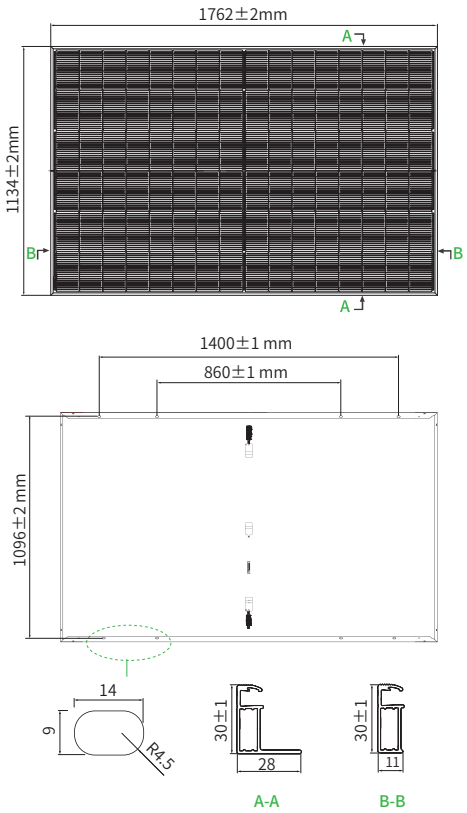
Maximum Power - Pmax [Wp]	450	455	460	465	470	475
Maximum Power Voltage - Vmp [V]	30.25	30.48	30.71	30.94	31.17	31.40
Maximum Power Current - Imp [A]	14.88	14.93	14.98	15.03	15.08	15.13
Open-circuit Voltage - Voc [V]	36.04	36.21	36.38	36.55	36.72	36.89
Short-circuit Current - Isc [A]	15.81	15.86	15.91	15.96	16.01	16.06
Module Efficiency STC [%]	22.52	22.77	23.02	23.27	23.52	23.77
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^2, Cell Temperature 25°C, AM=1.5

Application Conditions

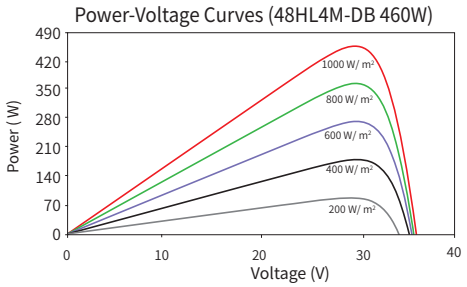
Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A

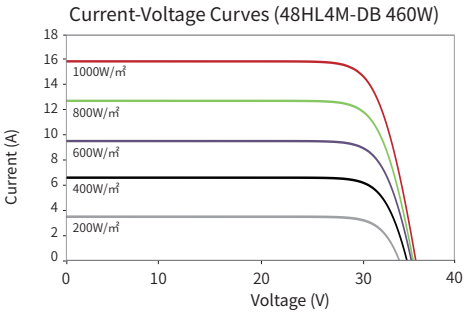
Engineering Drawings



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

Electrical Performance





Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

www.jinkosolar.com

Tiger Neo

60HL4-V

490-515 Watt

MONO-FACIAL MODULE

N-type

N-type Technology

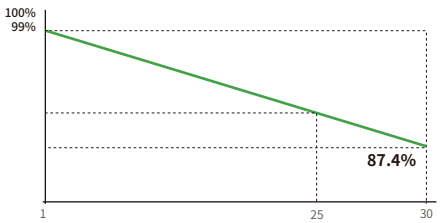
N-type modules with Tunnel Oxide Passivating Contacts (TOPCon) technology offer better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 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



25 Year	30 Year	1%	0.40%
Product Warranty	Linear Power Warranty	First-year Degradation	Annual Degradation Over 30 Years

- IEC61215:2021 / IEC61730:2023
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

JKM490-515N-60HL4-V-Z1-OC

60HL4-V 490-515 Watt

Mechanical Characteristics

Cell Type	N -type Mono-crystalline
No. of cells	120 (60×2)
Dimensions	1906×1134×30 mm
Weight	22.5 kg
Front Glass	3.2mm, Anti-reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M,JK03M2(JinKO)/MC4-EVO2(Staubli)
Output Cables	4.0 mm^2 (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimensions	1936×1140×1249 mm
Packing detail (Two pallets=One stack)	37 pcs/pallets, 74 pcs/stack, 888 pcs/ 40'HQ Container

Specifications (STC)

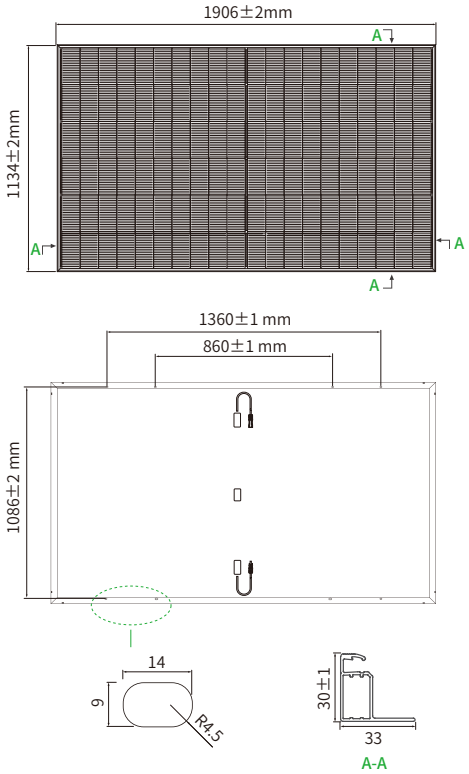
Maximum Power – Pmax [Wp]	490	495	500	505	510	515
Maximum Power Voltage – Vmp [V]	36.43	36.62	36.79	36.97	37.15	37.32
Maximum Power Current – Imp [A]	13.45	13.52	13.59	13.66	13.73	13.80
Open-circuit Voltage – Voc [V]	43.91	44.07	44.21	44.36	44.51	44.66
Short-circuit Current – Isc [A]	14.01	14.09	14.17	14.25	14.33	14.41
Module Efficiency STC [%]	22.67	22.90	23.13	23.36	23.60	23.83
Power Measurement Tolerance	± 3%					
Power Sorting	-5W ~ +15W					
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^2, Cell Temperature 25°C, AM=1.5

Application Conditions

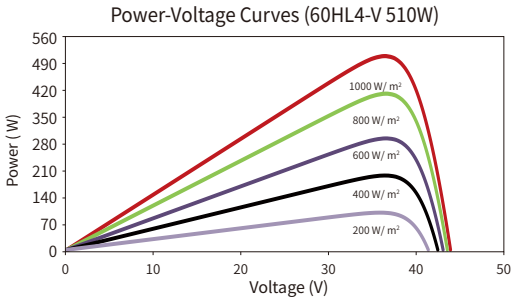
Operating Temperature	-40 °C ~ +70°C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	25 A

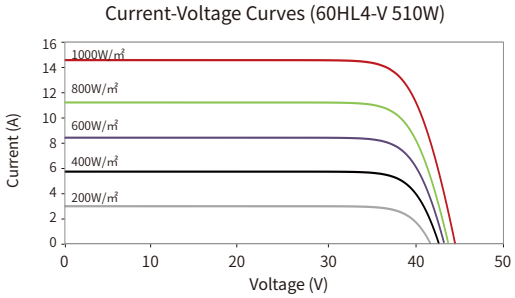
Engineering Drawings



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

Electrical Performance





Made in China

Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

JKM490-515N-60HL4-V-Z1-OC

www.jinkosolar.com
www.jinkosolar.com.au

www.jinkosolar.com

Tiger Neo

72HL4-BDV

575-600 Watt

BIFACIAL MODULE WITH DUAL GLASS

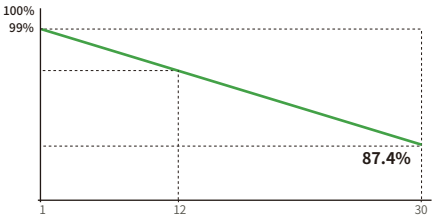
N-type

N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



12Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

Mechanical Load Enhanced

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

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID Guarantee

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

JKM575-600N-72HL4-BDV-F9-EN

AVIN

72HL4-BDV 575-600 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	144（72×2）
Dimensions	2278×1134×30 mm
Weight	31.0 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/MC4/Others
Output Cables	4.0 mm² (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimentions	2338×1140×1251mm
Packing Detail (Two pallets = One stack)	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	575	580	585	590	595	600
Maximum Power Voltage - Vmp [V]	43.73	43.88	44.02	44.17	44.31	44.45
Maximum Power Current - Imp [A]	13.15	13.22	13.29	13.36	13.43	13.50
Open-circuit Voltage - Voc [V]	52.30	52.50	52.70	52.90	53.10	53.30
Short-circuit Current - Isc [A]	13.89	13.95	14.01	14.07	14.13	14.19
Module Efficiency STC [%]	22.26	22.45	22.65	22.84	23.03	23.23
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/m², Cell Temperature 25°C, AM=1.5

Specifications (BNPI)

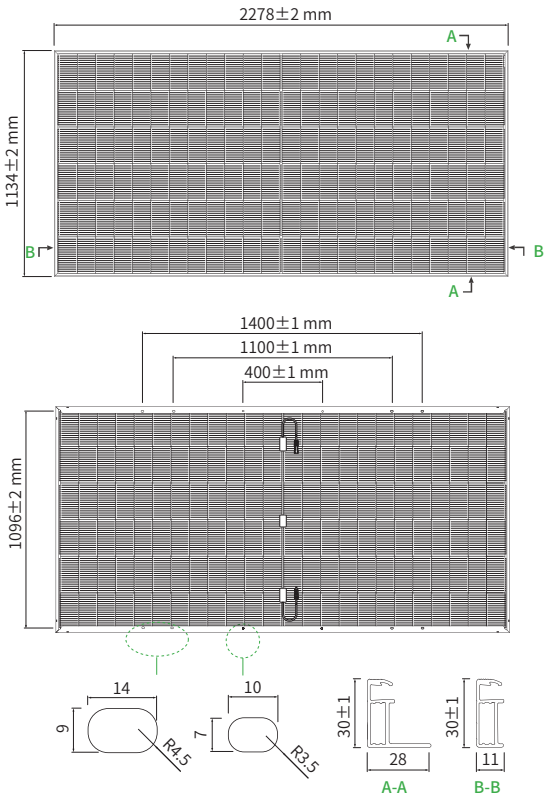
Maximum Power - Pmax [Wp]	633	638	644	649	655	660
Maximum Power Voltage - Vmp [V]	43.84	44.00	44.17	44.33	44.50	44.66
Maximum Power Current - Imp [A]	14.44	14.50	14.58	14.64	14.72	14.78
Open-circuit Voltage - Voc [V]	52.33	52.53	52.73	52.93	53.13	53.33
Short-circuit Current - Isc [A]	15.19	15.25	15.31	15.37	15.43	15.49

BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5

Application Conditions

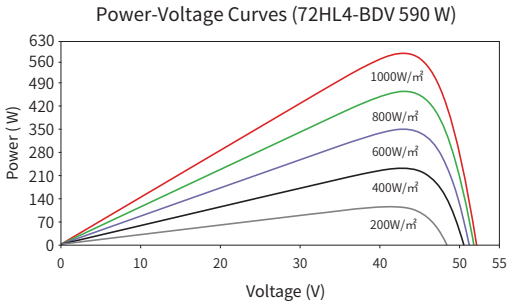
Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Bifaciality Coefficent	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %

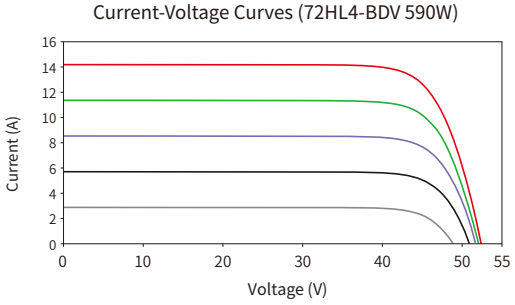
Engineering Drawings



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

Electrical Performance





Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

www.jinkosolar.com

Solar JinKO

TIGER Neo

72HL4-(V)

580-605 Watt

MONO-FACIAL MODULE

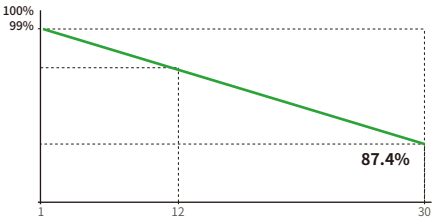
N-type

N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



12Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

Durability Against Extreme Environment

High salt mist and ammonia resistance.

Mechanical Load Enhanced

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

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID guarantee

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

JKM580-605N-72HL4-(V)-F9-EN

AVIN

72HL4-(V) 580-605 Watt

Mechanical Characteristics

Cell Type	N -type Mono-crystalline
No. of cells	144 (72×2)
Dimensions	2278×1134×30 mm
Weight	27.0 kg
Front Glass	3.2mm, Anti-reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/MC4/Others
Output Cables	4.0 mm^2 (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimensions	2308×1140×1249 mm
Packing detail (Two pallets=One stack)	37 pcs/pallets, 74 pcs/stack, 740 pcs/ 40'HQ Container

Specifications (STC)

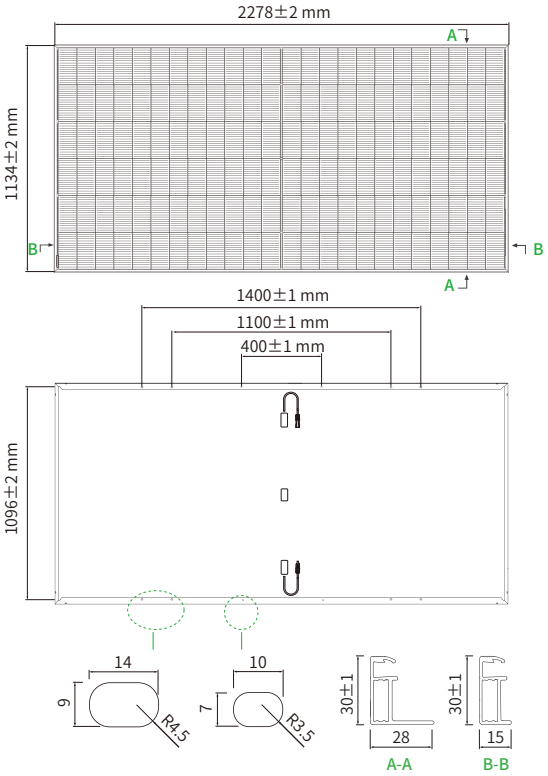
Maximum Power – Pmax [Wp]	580	585	590	595	600	605
Maximum Power Voltage – Vmp [V]	43.35	43.53	43.71	43.88	44.06	44.23
Maximum Power Current – Imp [A]	13.38	13.44	13.50	13.56	13.62	13.68
Open-circuit Voltage – Voc [V]	52.31	52.47	52.63	52.79	52.95	53.11
Short-circuit Current – Isc [A]	14.01	14.07	14.13	14.19	14.25	14.31
Module Efficiency STC [%]	22.45	22.65	22.84	23.03	23.23	23.42
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^2, Cell Temperature 25°C, AM=1.5

Application Conditions

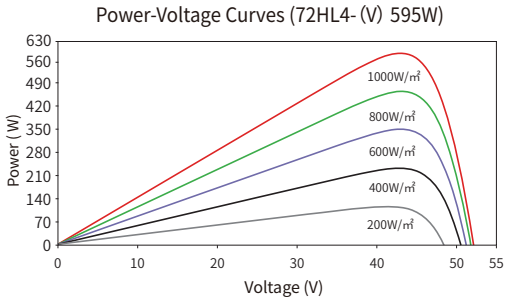
Operating Temperature	-40 °C ~ +70°C
Maximum System Voltage	1000/1500 VDC (IEC)
Maximum Series Fuse Rating	25 A

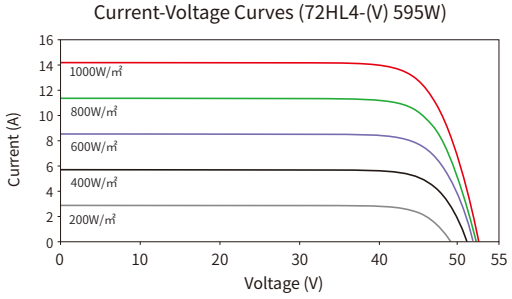
Engineering Drawings



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

Electrical Performance





Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

www.jinkosolar.com

Tiger Neo

66HL4M-BDV

605-630 Watt

BIFACIAL MODULE WITH DUAL GLASS

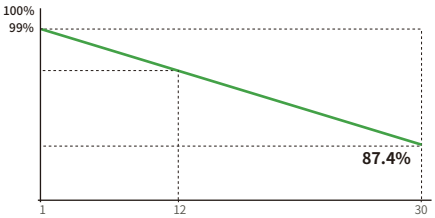
N-type

N-Type Technology

N-Type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



12Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

Mechanical Load Enhanced

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

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID Guarantee

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

JKM605-630N-66HL4M-BDV-F3-EN

AVIN

66HL4M-BDV 605-630 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	132（66×2）
Dimensions	2382×1134×30 mm
Weight	32.4 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/MC4/Others
Output Cables	4.0 mm² (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimentions	2396×1110×1251mm
Packing Detail (Two pallets = One stack)	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	605	610	615	620	625	630
Maximum Power Voltage - Vmp [V]	40.31	40.46	40.60	40.74	40.88	41.02
Maximum Power Current - Imp [A]	15.01	15.08	15.15	15.22	15.29	15.36
Open-circuit Voltage - Voc [V]	48.48	48.68	48.88	49.08	49.28	49.48
Short-circuit Current - Isc [A]	15.90	15.96	16.02	16.08	16.14	16.20
Module Efficiency STC [%]	22.40	22.58	22.77	22.95	23.14	23.32
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/m², Cell Temperature 25°C, AM=1.5

Specifications (BNPI)

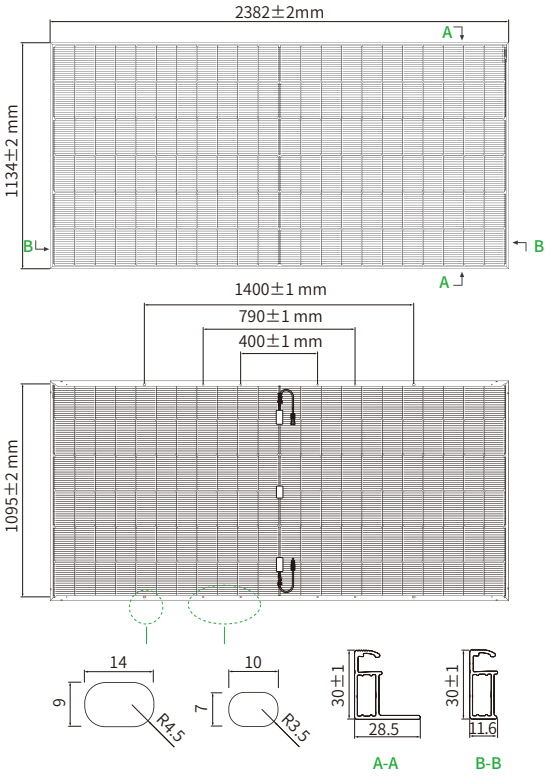
Maximum Power - Pmax [Wp]	668	674	679	685	690	696
Maximum Power Voltage - Vmp [V]	40.29	40.46	40.59	40.75	40.88	41.04
Maximum Power Current - Imp [A]	16.58	16.66	16.73	16.81	16.88	16.95
Open-circuit Voltage - Voc [V]	48.46	48.66	48.86	49.06	49.26	49.46
Short-circuit Current - Isc [A]	17.56	17.64	17.70	17.77	17.83	17.90

BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5

Application Conditions

Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	35 A
Bifaciality Coefficent	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %

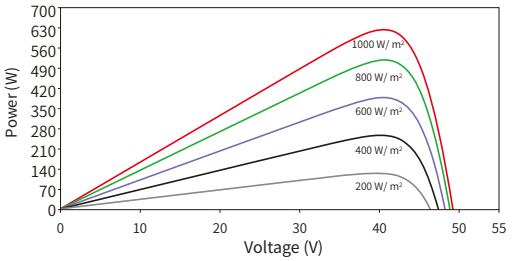
Engineering Drawings



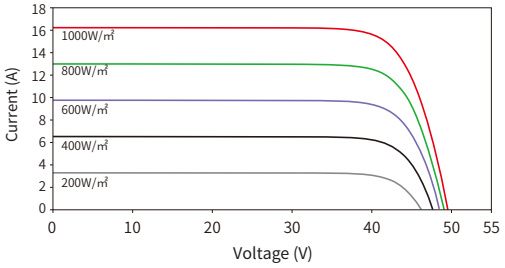
Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

Power-Voltage Curves (66HL4M-BDV 625W)



Current-Voltage Curves (66HL4M-BDV 625W)



Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

www.jinkosolar.com

Tiger Neo

66HL4M-(V)

610-635 Watt

MONO-FACIAL MODULE

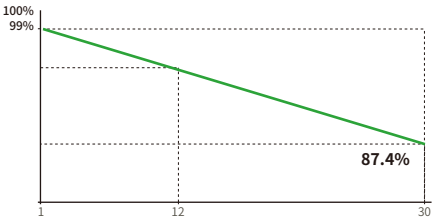
N-type

N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



12 Year — Product Warranty | **30** Year — Linear Power Warranty | **1**% — First-year Degradation | **0.40**% — Annual Degradation Over 30 Years

Durability Against Extreme Environment

High salt mist and ammonia resistance.

Mechanical Load Enhanced

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

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID guarantee

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

JKM610-635N-66HL4M-(V)-F2-EN

AVIN

66HL4M-(V) 610-635 Watt

Mechanical Characteristics

Cell Type	N -type Mono-crystalline
No. of cells	132 (66×2)
Dimensions	2382×1134×35 mm
Weight	28.2 kg
Front Glass	3.2mm, Anti-reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/MC4/Others
Output Cables	4.0 mm^2 (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimensions	2396×1110×1251 mm
Packing detail (Two pallets=One stack)	31 pcs/pallets, 62 pcs/stack, 620 pcs/ 40'HQ Container

Specifications (STC)

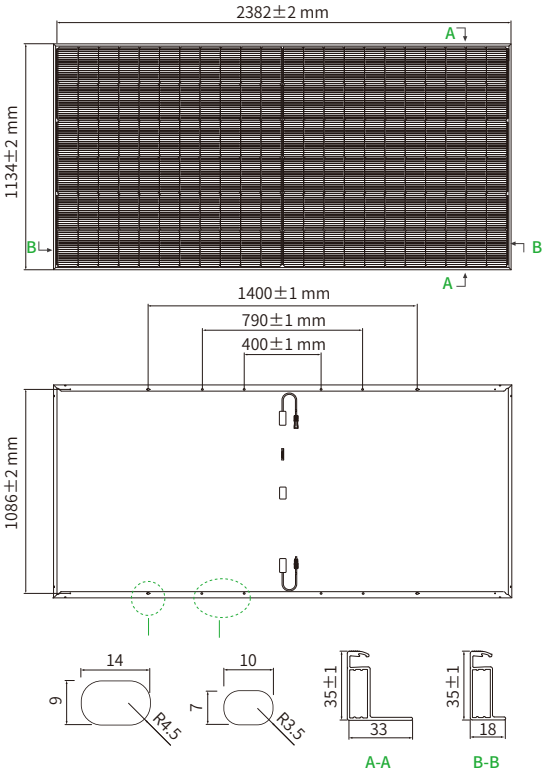
Maximum Power – Pmax [Wp]	610	615	620	625	630	635
Maximum Power Voltage – Vmp [V]	40.56	40.73	40.90	41.07	41.23	41.39
Maximum Power Current – Imp [A]	15.04	15.10	15.16	15.22	15.28	15.34
Open-circuit Voltage – Voc [V]	48.63	48.79	48.95	49.11	49.27	49.43
Short-circuit Current – Isc [A]	16.01	16.08	16.15	16.22	16.29	16.36
Module Efficiency STC [%]	22.58	22.77	22.95	23.14	23.32	23.51
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^2, Cell Temperature 25°C, AM=1.5

Application Conditions

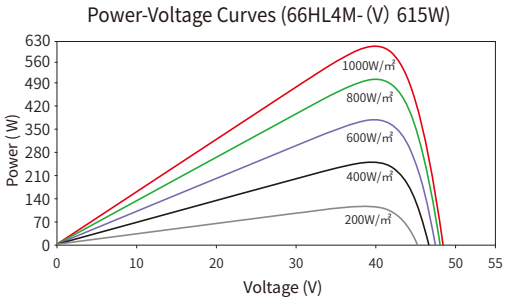
Operating Temperature	-40 °C ~ +70°C
Maximum System Voltage	1000/1500 VDC (IEC)
Maximum Series Fuse Rating	30 A

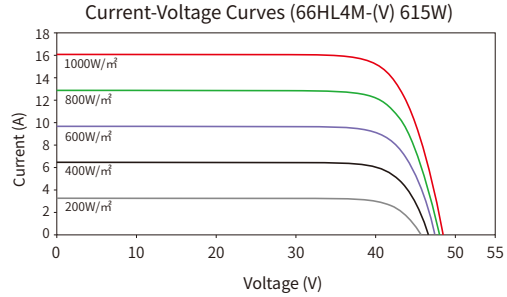
Engineering Drawings



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

Electrical Performance





Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

www.jinkosolar.com

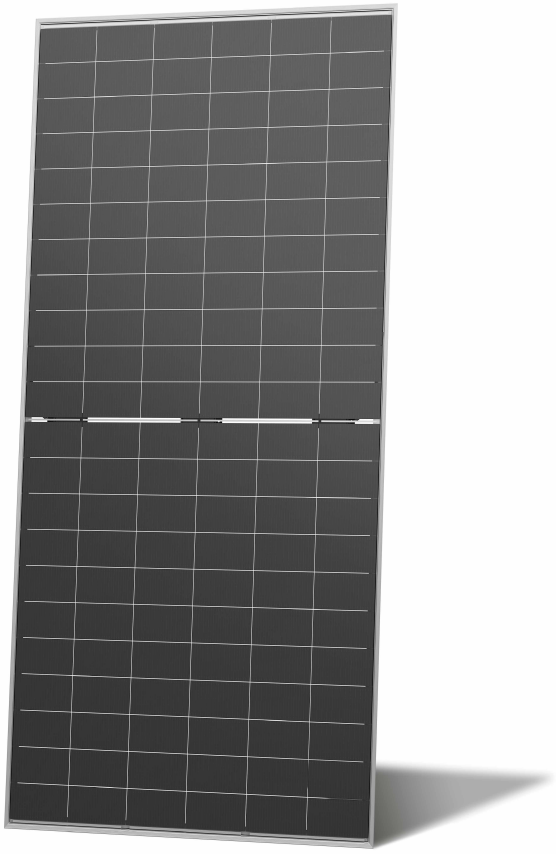
Tiger Neo

66HL4M-BDV

625-650 Watt

BIFACIAL MODULE WITH DUAL GLASS

N-type

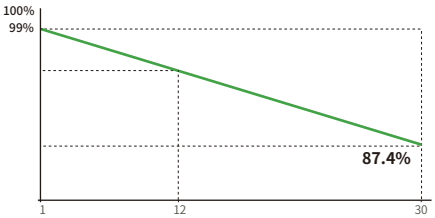


N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPCon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



12Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

Mechanical Load Enhanced

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

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID Guarantee

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

CLEAN ENERGY COUNCIL MEMBER

POSITIVE QUALITY™ Continuous Quality Assurance

JKM625-650N-66HL4M-BDV-Z1-EN

AVIN

66HL4M-BDV 625-650 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	132（66×2）
Dimensions	2382×1134×30 mm
Weight	32.4 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M / JK03M2 / Others*
Output Cables (Including Connector)	4.0 mm^2 (+): 400 mm , (-): 200 mm or Customized Length

* MC4 and MC4-EVO2 available upon request and subject to availability

Packaging Configuration

Pallet Dimensions	2396×1110×1251 mm
Packing Detail (Two pallets = One stack)	36 pcs/pallets, 72 pcs/stack, 720 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	625	630	635	640	645	650
Maximum Power Voltage - Vmp [V]	40.88	41.02	41.16	41.30	41.44	41.58
Maximum Power Current - Imp [A]	15.29	15.36	15.43	15.50	15.57	15.64
Open-circuit Voltage - Voc [V]	49.28	49.48	49.68	49.88	50.08	50.28
Short-circuit Current - Isc [A]	16.14	16.20	16.26	16.32	16.38	16.44
Module Efficiency STC [%]	23.14	23.32	23.51	23.69	23.88	24.06
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^2, Cell Temperature 25°C, AM=1.5

Specifications (BNPI)

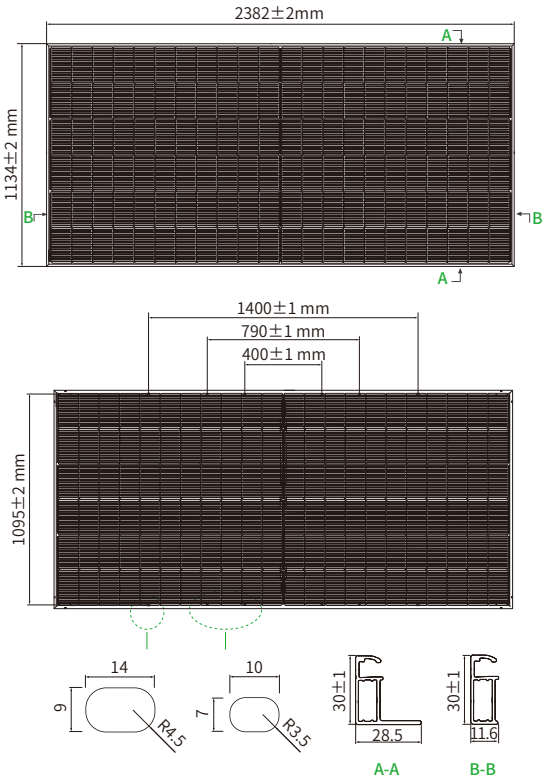
Maximum Power - Pmax [Wp]	690	696	701	707	712	718
Maximum Power Voltage - Vmp [V]	40.88	41.04	41.17	41.33	41.46	41.61
Maximum Power Current - Imp [A]	16.88	16.95	17.03	17.10	17.17	17.24
Open-circuit Voltage - Voc [V]	49.26	49.46	49.66	49.86	50.06	50.26
Short-circuit Current - Isc [A]	17.83	17.90	17.96	18.03	18.09	18.16

BNPI: Irradiance: front 1000W/m^2, rear 135W/m^2, Cell Temperature 25°C, AM=1.5

Application Conditions

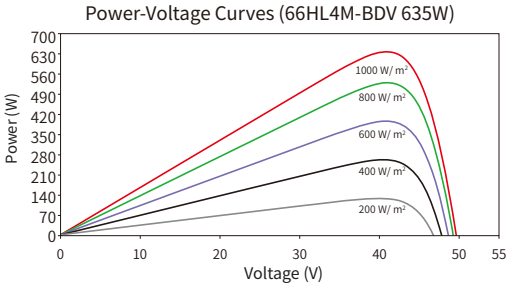
Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	35 A
Bifaciality Coefficient	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %

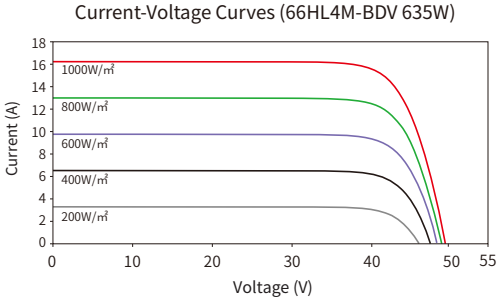
Engineering Drawings



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

Electrical Performance





Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.

www.jinkosolar.com

Tiger Neo

78HL4-BDV

625-650 Watt

BIFACIAL MODULE WITH DUAL GLASS

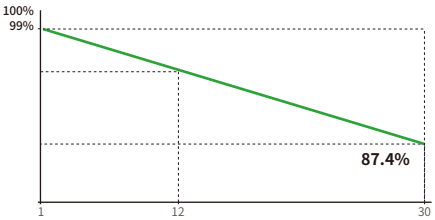
N-type

N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.

HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



12Year Product Warranty | **30**Year Linear Power Warranty | **1**% First-year Degradation | **0.40**% Annual Degradation Over 30 Years

Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

Mechanical Load Enhanced

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

- IEC61215:2021 / IEC61730:2023
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID Guarantee

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

JKM625-650N-78HL4-BDV-F9-EN

AVIN

78HL4-BDV 625-650 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	156（78×2）
Dimensions	2465×1134×30 mm
Weight	34.0 kg
Front Glass	2.0 mm, Anti-reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	JK03M/MC4/Others
Output Cables	4.0 mm² (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimentions	2525×1140×1251mm
Packing Detail (Two pallets = One stack)	36 pcs/pallets, 72 pcs/stack, 576 pcs/ 40'HQ Container

Specifications (STC)

Maximum Power - Pmax [Wp]	625	630	635	640	645	650
Maximum Power Voltage - Vmp [V]	47.54	47.70	47.86	48.02	48.17	48.33
Maximum Power Current - Imp [A]	13.15	13.21	13.27	13.33	13.39	13.45
Open-circuit Voltage - Voc [V]	56.95	57.08	57.21	57.34	57.47	57.60
Short-circuit Current - Isc [A]	13.80	13.86	13.92	13.98	14.04	14.10
Module Efficiency STC [%]	22.36	22.54	22.72	22.90	23.07	23.25
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/m², Cell Temperature 25°C, AM=1.5

Specifications (BNPI)

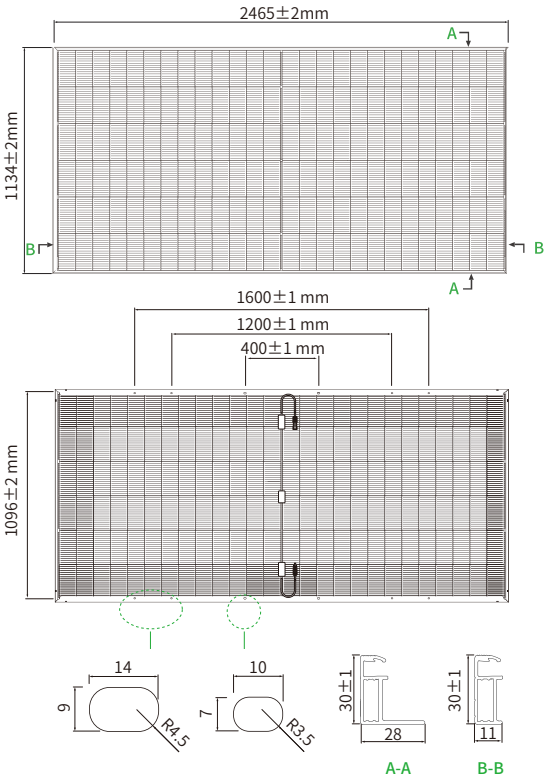
Maximum Power - Pmax [Wp]	688	693	699	704	710	716
Maximum Power Voltage - Vmp [V]	47.57	47.73	47.91	48.06	48.23	48.40
Maximum Power Current - Imp [A]	14.46	14.52	14.59	14.65	14.72	14.79
Open-circuit Voltage - Voc [V]	57.00	57.14	57.28	57.42	57.56	57.70
Short-circuit Current - Isc [A]	15.19	15.27	15.35	15.43	15.51	15.59

BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5

Application Conditions

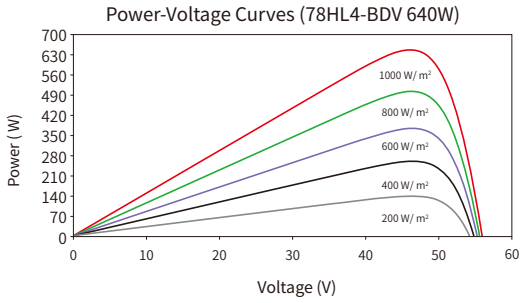
Operating Temperature	-40 °C ~ +70 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Bifaciality Coefficent	φVoc: 98±5 %, φIsc: 80±5 %, φPmax: 80±5 %

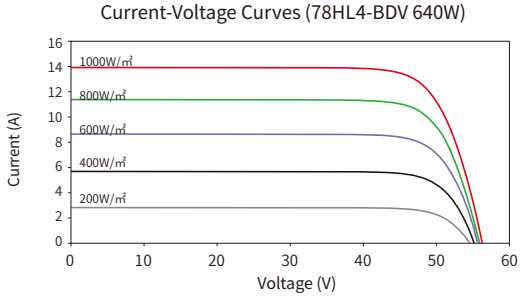
Engineering Drawings



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

Electrical Performance & Temperature Dependence





JKM625-650N-78HL4-BDV-F9-EN

www.jinkosolar.com

Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.