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Building Your Trust in Solar

Tiger Neo N-Typ
54HL4R-BDV
420-440 Watt

BIFAZIALES MODUL
MIT DOPPELGLAS

N-Typ

Positive Leistungstoleranz von 0~+3 %

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Qualitätsmanagementsystem

ISO14001:2015: Umweltmanagementsystem

ISO45001:2018:
Managementsysteme für Sicherheit und Gesundheit bei der Arbeit

WICHTIGE MERKMALE

SMBB-Technologie

Mehr Modulleistung und Zuverlässigkeit dank verbesserter Lichtabsorption und verbesserten Stromtransport.

Hot 2.0-Technologie

Das N-Typ-Modul mit Hot 2.0-Technologie ist zuverlässiger und reduziert LID/LeTID-Effekte.

PID-Widerstand

Exzellente Anti-PID-Leistungsgarantie dank optimiertem Massenproduktionsprozess und Materialkontrolle.

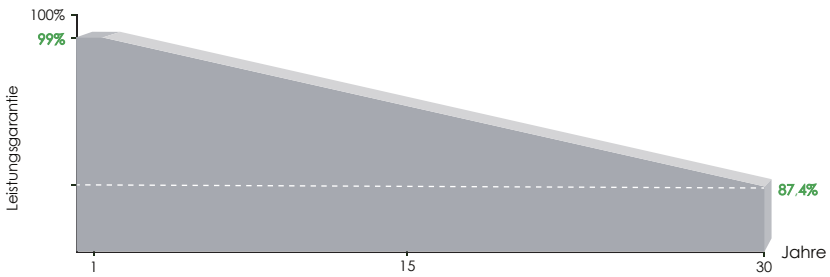
Verbesserte mechanische Widerstandskraft

Zertifiziert für Windlasten bis 4000 Pa und Schneelasten bis 6000 Pa.

Maximale Lebensdauer auch unter extremen Umweltbedingungen

Hohe Salznebel- und Ammoniakbeständigkeit.

LINEARE LEISTUNGSGARANTIE

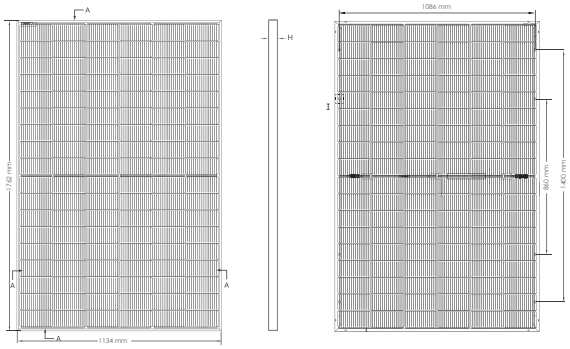


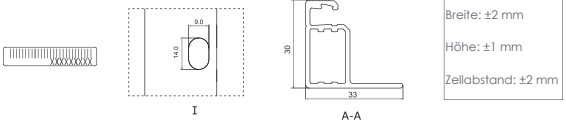
15 Jahre Produktgarantie

30 Jahre lineare Leistungsgarantie

0,40 % jährliche Degradation über 30 Jahre

Technische Zeichnungen

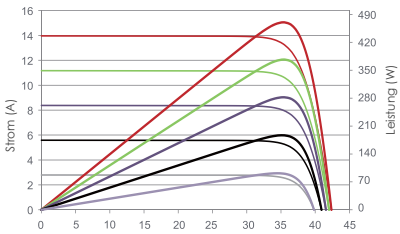




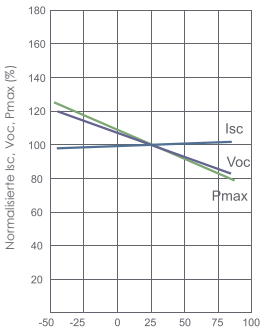
Länge: ±2 mm
Breite: ±2 mm
Höhe: ±1 mm
Zellabstand: ±2 mm

Elektrische Leistung und Temperaturabhängigkeit

Strom-Spannungs- und Leistungs-Kennlinien (430W)



Temperaturabhängigkeit von Isc, Voc, Pmax



Mechanische Eigenschaften

Zellentyp	Monokristallin N-Typ
Zellenanzahl	108 (2×54)
Maße	1762×1134×30 mm (69,37×44,65×1,18 Zoll)
Gewicht	22,0 kg (48,50 lbs)
Glas Vorderseite	1,6 mm Antireflexbeschichtung
Glas Rückseite	1,6 mm thermisch gehärtetes Glas
Rahmen	Eloxierte Aluminiumlegierung
Anschlusskasten	Schutzklasse IP68
Anschlusskabel	TÜV 1×4,0 mm² (+): 400 mm, (-): 200 mm oder maßgeschneiderte Länge

Verpackungseinheiten

(zwei Paletten = ein Stapel)

36 Stück/Palette, 72 Stück/Stapel, 936 Stück/40-Fuss-Container

Spezifikationen

Modultyp	JKM420N-54HL4R-BDV		JKM425N-54HL4R-BDV		JKM430N-54HL4R-BDV		JKM435N-54HL4R-BDV		JKM440N-54HL4R-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximale Leistung (Pmax)	420 Wp	316 Wp	425 Wp	320 Wp	430 Wp	323 Wp	435 Wp	327 Wp	440 Wp	331 Wp
Max. Spannung (Vmp)	31,68 V	29,57 V	31,86 V	29,73 V	32,04 V	29,94 V	32,23 V	30,12 V	32,40 V	30,27 V
Max. Strom (Imp)	13,26 A	10,68 A	13,34 A	10,75 A	13,42 A	10,80 A	13,50 A	10,86 A	13,58 A	10,93 A
Leerlaufspannung (Voc)	38,18 V	36,26 V	38,38 V	36,45 V	38,58 V	36,64 V	38,79 V	36,84 V	38,98 V	37,02 V
Kurzschlussstrom (Isc)	14,03 A	11,33 A	14,11 A	11,39 A	14,19 A	11,46 A	14,27 A	11,52 A	14,35 A	11,59 A
Modulwirkungsgrad STC (%)	21,02 %		21,27 %		21,52 %		21,77 %		22,02 %	
Betriebstemperatur(℃)	-40℃~+85℃									
Maximale Systemspannung	1500 VDC (IEC)									
Maximale Vorschaltsicherungsleistung	30 A									
Leistungstoleranz	0~+3 %									
Temperaturkoeffizient Pmax	-0,29 %/℃									
Temperaturkoeffizient Voc	-0,25 %/℃									
Temperaturkoeffizient Isc	0,045 %/℃									
Nominale Betriebstemperatur der Zelle (NOCT)	45±2℃									
Bifazialer Faktor	80±5 %									

BIFAZIALE LEISTUNG – LEISTUNGSZUWACHS RÜCKSEITE

5 %	Maximale Leistung (Pmax)	441 Wp	446 Wp	452 Wp	457 Wp	462 Wp
	Modulwirkungsgrad STC (%)	22,07 %	22,33 %	22,60 %	22,86 %	23,12 %
15 %	Maximale Leistung (Pmax)	483 Wp	489 Wp	495 Wp	500 Wp	506 Wp
	Modulwirkungsgrad STC (%)	24,17 %	24,46 %	24,75 %	25,04 %	25,32 %
25 %	Maximale Leistung (Pmax)	525 Wp	531 Wp	538 Wp	544 Wp	550 Wp
	Modulwirkungsgrad STC (%)	26,27 %	26,59 %	26,90 %	27,21 %	27,53 %

*STC: Einstrahlung 1000 W/m² Zelltemperatur 25°C AM=1,5

NOCT: Einstrahlung 800 W/m² Umgebungstemperatur 20°C AM=1,5 Windgeschwindigkeit 1 m/s

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Solar JinKO
Building Your Trust in Solar

Tiger Neo N-type 54HL4R-BDV

420-440 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.

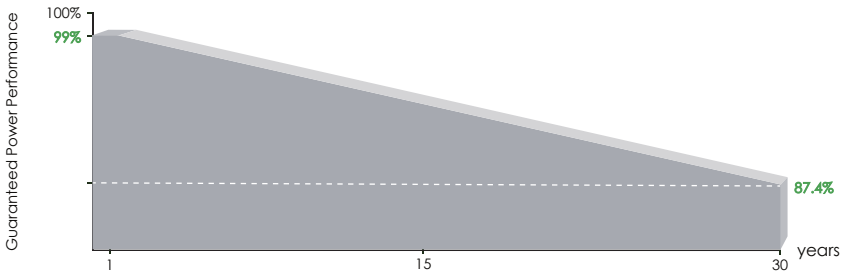
Enhanced Mechanical Load

Certified to withstand: wind load (4000 Pascal) and snow load (6000 Pascal).

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

LINEAR PERFORMANCE WARRANTY

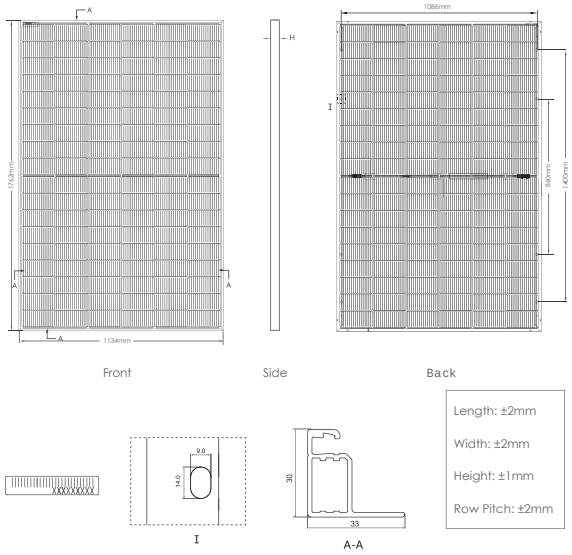


15 Year Product Warranty

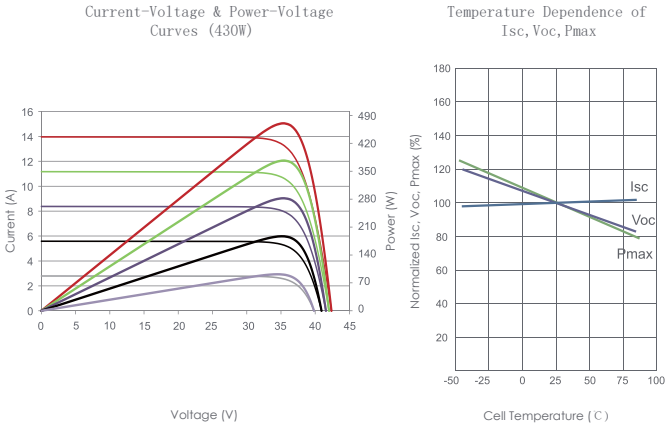
30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings



Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	108 (2×54)
Dimensions	1762×1134×30mm (69.37×44.65×1.18 inch)
Weight	22.0 kg (48.50 lbs)
Front Glass	1.6mm, Anti-Reflection Coating
Back Glass	1.6mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm² (+): 400mm , (-): 200mm or Customized Length

Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

SPECIFICATIONS

Module Type	JKM420N-54HL4R-BDV		JKM425N-54HL4R-BDV		JKM430N-54HL4R-BDV		JKM435N-54HL4R-BDV		JKM440N-54HL4R-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	420Wp	316Wp	425Wp	320Wp	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp
Maximum Power Voltage (Vmp)	31.68V	29.57V	31.86V	29.73V	32.04V	29.94V	32.23V	30.12V	32.40V	30.27V
Maximum Power Current (Imp)	13.26A	10.68A	13.34A	10.75A	13.42A	10.80A	13.50A	10.86A	13.58A	10.93A
Open-circuit Voltage (Voc)	38.18V	36.26V	38.38V	36.45V	38.58V	36.64V	38.79V	36.84V	38.98V	37.02V
Short-circuit Current (Isc)	14.03A	11.33A	14.11A	11.39A	14.19A	11.46A	14.27A	11.52A	14.35A	11.59A
Module Efficiency STC (%)	21.02%		21.27%		21.52%		21.77%		22.02%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
Power tolerance	0~+3%									
Temperature coefficient of Pmax	-0.29%/°C									
Temperature coefficient of Voc	-0.25%/°C									
Temperature coefficient of Isc	0.045%/°C									
Nominal operating cell temperature (NOCT)	45±2									
Bifacial Factor	80±5%									

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	441Wp	446Wp	452Wp	457Wp	462Wp
	Module Efficiency STC (%)	22.07%	22.33%	22.60%	22.86%	23.12%
15%	Maximum Power (Pmax)	483Wp	489Wp	495Wp	500Wp	506Wp
	Module Efficiency STC (%)	24.17%	24.46%	24.75%	25.04%	25.32%
25%	Maximum Power (Pmax)	525Wp	531Wp	538Wp	544Wp	550Wp
	Module Efficiency STC (%)	26.27%	26.59%	26.90%	27.21%	27.53%

*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