

Tiger Pro 72HL4-BDVP

545-565 Watt

BIFACIAL MODULE WITH DUAL GLASS

P-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



MBB HC Technology

Key Features



Multi Busbar Technology

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



Longer Life-time Power Yield

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



PID Resistance

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



Higher Power Output

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

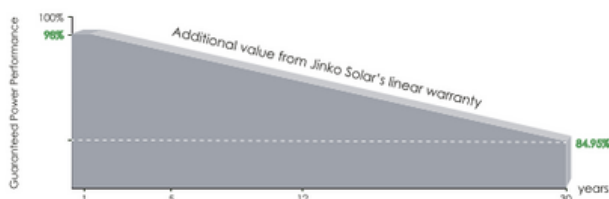


Enhanced Mechanical Load

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



LINEAR PERFORMANCE WARRANTY

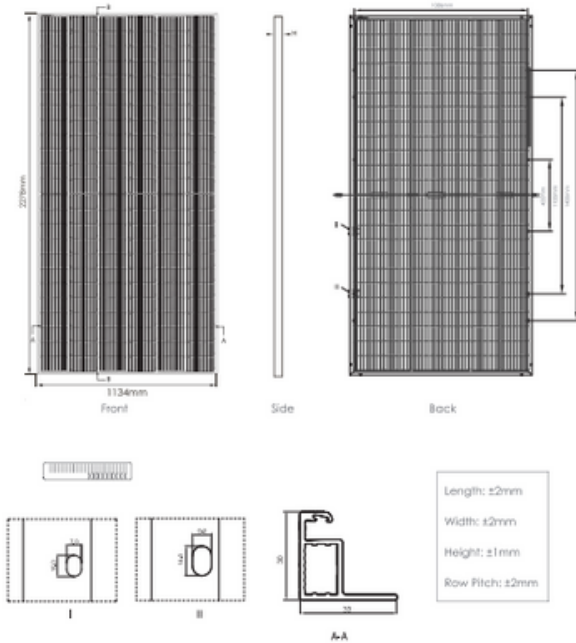


12 Year Product Warranty

30 Year Linear Power Warranty

0.45% Annual Degradation Over 30 years

Engineering Drawings

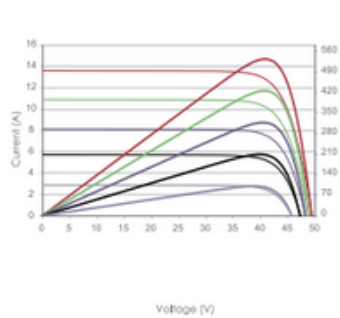


Packaging Configuration

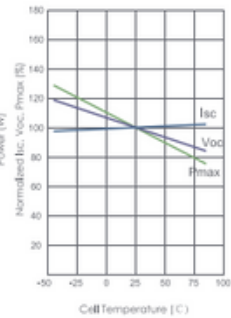
(Two pallets = One stack)
36pcs/pallets, 72pcs/stack, 720pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (535W)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

| | |
|---------------|---|
| Cell Type | P type Mono-crystalline |
| No. of Cells | 144 (6×24) |
| Dimensions | 2278×1134×35mm (89.69×44.65×1.38 inch) |
| Weight | 32 kg (70.55 lbs) |
| Front Glass | 2.0 mm , Anti Reflection Coating |
| Back Glass | 2.0mm, Heat Strengthened Glass |
| Frame | Anodized Aluminum Alloy |
| Junction Box | IP68 Rated |
| Output Cables | TUV 1×4.0mm2 (+): 400mm , (-): 200mm or Customized Length |

SPECIFICATIONS

| Module Type | JKM545M-72HL4-BDVP | | JKM550M-72HL4-BDVP | | JKM555M-72HL4-BDVP | | JKM560M-72HL4-BDVP | | JKM565M-72HL4-BDVP | |
|----------------------------------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|--------------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 545 | 405 | 550 | 409 | 555 | 413 | 560 | 417 | 565 | 420 |
| Maximum Power Voltage (Vmp) | 41.32 | 38.25 | 41.51 | 38.42 | 41.70 | 38.59 | 41.89 | 38.76 | 42.08 | 38.89 |
| Maximum Power Current (Imp) | 13.19 | 10.60 | 13.25 | 10.65 | 13.31 | 10.70 | 13.37 | 10.75 | 13.43 | 10.81 |
| Open-circuit Voltage (Voc) | 49.92 | 47.12 | 50.11 | 47.30 | 50.30 | 47.48 | 50.49 | 47.66 | 50.68 | 47.84 |
| Short-circuit Current (Isc) | 13.95 | 11.27 | 14.01 | 11.32 | 14.07 | 11.36 | 14.13 | 11.41 | 14.19 | 11.46 |
| Module Efficiency STC% | 21.10 | | 21.29 | | 21.48 | | 21.68 | | 21.87 | |
| 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 | -0.35%/°C | | | | | | | | | |
| Temperature coefficients of Voc | -0.28%/°C | | | | | | | | | |
| Temperature coefficients of Isc | 0.048%/°C | | | | | | | | | |
| NOCT | 45±2°C | | | | | | | | | |
| Refer. Bifacial Factor | 70±5% | | | | | | | | | |

BIFACIAL OUTPUT-REARSIDE POWER GAIN

| Gain (%) | Parameter | JKM545M-72HL4-BDVP | JKM550M-72HL4-BDVP | JKM555M-72HL4-BDVP | JKM560M-72HL4-BDVP | JKM565M-72HL4-BDVP |
|----------|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| 5% | Maximum Power (Pmax) | 572 | 578 | 583 | 588 | 593 |
| | Module Efficiency STC (%) | 22.15% | 22.36% | 22.56% | 22.76% | 22.97% |
| 15% | Maximum Power (Pmax) | 627 | 633 | 638 | 644 | 650 |
| | Module Efficiency STC (%) | 24.26% | 24.48% | 24.71% | 24.63% | 25.15% |
| 25% | Maximum Power (Pmax) | 681 | 688 | 694 | 700 | 706 |
| | Module Efficiency STC (%) | 26.37% | 26.61% | 26.86% | 27.10% | 27.34% |

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