

Tiger Pro 60HC

440-460 Watt

MONO-FACIAL MODULE

P-Type

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018
Occupational health and safety management systems
(Made in China)



MBB HC Technology

Key Features



Multi Busbar Technology

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



Reduced Hot Spot Loss

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



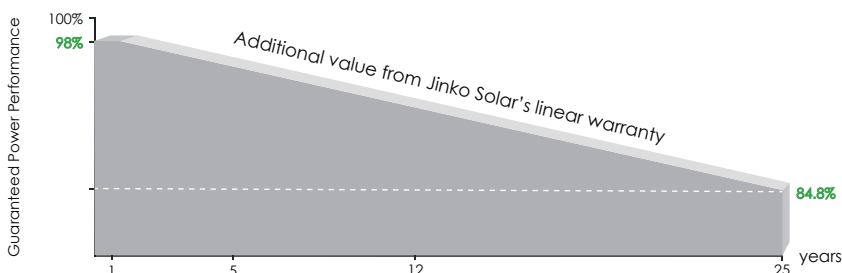
Enhanced Mechanical Load

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



POSITIVE QUALITY™
Continuous Quality Assurance

LINEAR PERFORMANCE WARRANTY

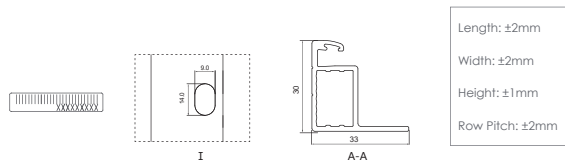
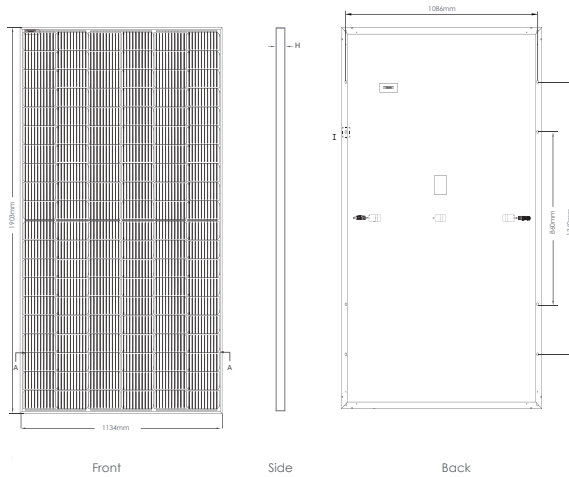


25 Year Product Warranty

25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years

Engineering Drawings



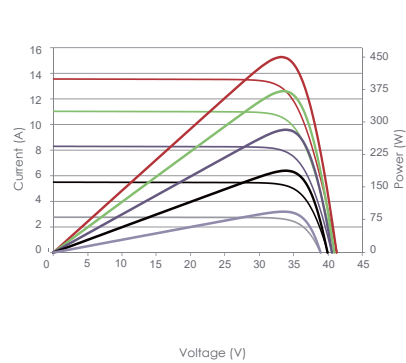
Packaging Configuration

(Two pallets = One stack)

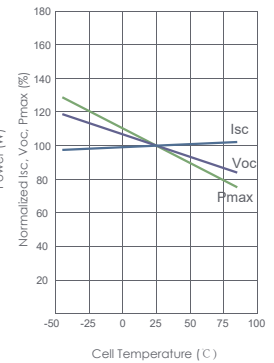
36pcs/pallets, 72pcs/stack, 864pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (450W)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

| | |
|----------------|---|
| Cell Type | P 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 (+): 290mm, (-): 145mm or Customized Length |
| Connector Type | 1000V:Staubli MC4,JK03M/1B,JK03M2/1B,Jinko PV material 1500V:Staubli MC4-EVO2,JK03M/2B,JK03M2/2B,Jinko PV material |
| Fire Class | Class C |

SPECIFICATIONS

| Module Type | JKM440M-60HL4 | | JKM445M-60HL4 | | JKM450M-60HL4 | | JKM455M-60HL4 | | JKM460M-60HL4 | |
|---|--------------------|--------|---------------|--------|---------------|---------------------------------|---------------|--------|---------------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 440Wp | 327Wp | 445Wp | 331Wp | 450Wp | 335Wp | 455Wp | 339Wp | 460Wp | 342Wp |
| Maximum Power Voltage (Vmp) | 33.72V | 31.39V | 33.82V | 31.56V | 33.91V | 31.73V | 34.06V | 31.91V | 34.20V | 32.07V |
| Maximum Power Current (Imp) | 13.05A | 10.43A | 13.16A | 10.49A | 13.27A | 10.55A | 13.36A | 10.61A | 13.45A | 10.67A |
| Open-circuit Voltage (Voc) | 41.02V | 38.72V | 41.10V | 38.79V | 41.18V | 38.87V | 41.33V | 39.01V | 41.48V | 39.15V |
| Short-circuit Current (Isc) | 13.73A | 11.09A | 13.79A | 11.14A | 13.85A | 11.19A | 13.93A | 11.25A | 14.01A | 11.32A |
| Module Efficiency STC (%) | 20.39% | | 20.62% | | 20.85% | | 21.08% | | 21.32% | |
| Operating Temperature(°C) | -40°C~+85°C | | | | | | | | | |
| Maximum system voltage | 1000/1500VDC (IEC) | | | | | with -V=1500V, without -V=1000V | | | | |
| Maximum series fuse rating | 25A | | | | | | | | | |
| Power measurement tolerance | -3%~+3% | | | | | | | | | |
| Temperature coefficients of Pmax | -0.35%/°C | | | | | | | | | |
| Temperature coefficients of Voc | -0.28%/°C | | | | | | | | | |
| Temperature coefficients of Isc | 0.048%/°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