



THE MOST DEPENDABLE SOLAR PRODUCT

EAGLE 72 G6B

565-585 WATT • N-TYPE BIFACIAL

Positive power tolerance of 0~+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Top performance in the strictest 3rd party labs
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar factories in USA, Vietnam, and Malaysia

KEY FEATURES



N-Type Technology

N-type cells offer Jinko's in-house TOPCon technology with better performance and improved reliability.



Multi Busbar Half Cell Technology

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



Bifacial Power Gain

N-Type architecture increases bifaciality for higher backside bonus and better lifetime yield.



Low Temperature Coefficient

Best in class temperature coefficient for highest lifetime energy yield in all climates.



Industrial Grade Construction

Fire Type 29 with optimized dual-glass construction and thick frame for highest mechanical load resistance.



Shade Tolerant

Twin array design allows continued performance even with shading by trees or debris.



Protected Against All Environments

Certified to withstand humidity, heat, rain, marine environments, wind, hailstorms, and packed snow.



Warranty

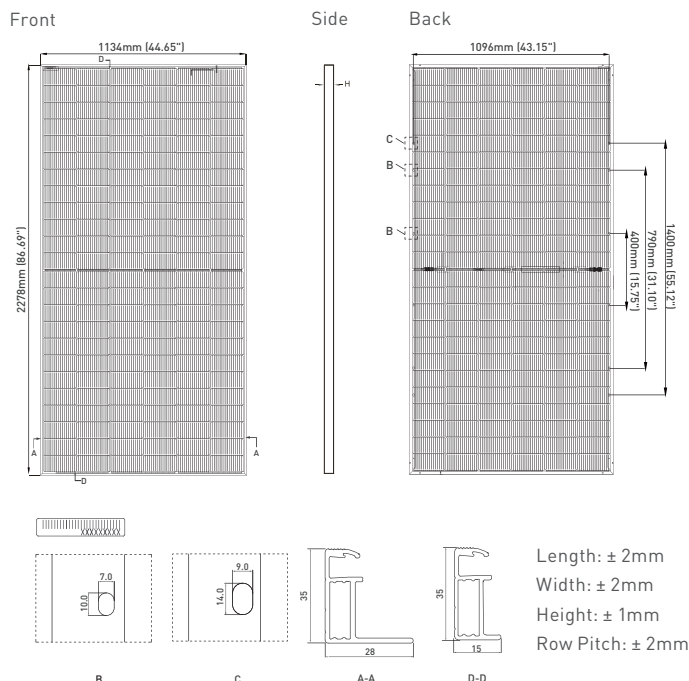
12-year product and 30-year linear power warranty.

- ISO9001:2015 Quality Standards
- ISO14001:2015 Environmental Standards
- IEC61215, IEC61730 certified products

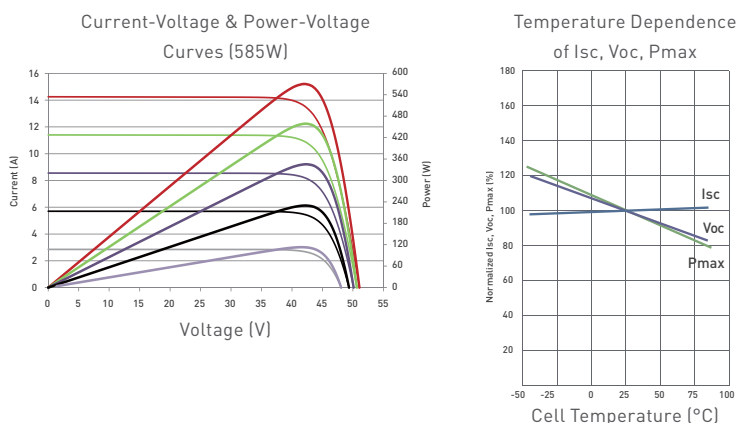
- ISO45001:2018 Occupational Health & Safety Standards
- UL61730 certified products



ENGINEERING DRAWINGS



ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



MECHANICAL CHARACTERISTICS

No. of Half Cells	144 (2 x 72)
Dimensions	2278 x 1134 x 35mm (89.69 x 44.65 x 1.38in)
Weight	32kg (70.55lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Output Cables	12 AWG, 1400mm (55.12in)
Fire Type	Type 29
Pressure Rating	5400Pa (Snow) & 2400Pa (Wind)

TEMPERATURE CHARACTERISTICS

Temperature Coefficients of P_{max}	$-0.29\%/^{\circ}\text{C}$
Temperature Coefficients of V_{oc}	$-0.25\%/^{\circ}\text{C}$
Temperature Coefficients of I_{sc}	$0.045\%/^{\circ}\text{C}$
Nominal Operating Cell Temperature (NOCT)	$45\pm 2^{\circ}\text{C}$
Bifacial Factor	$80\pm 5\%$

MAXIMUM RATINGS

Operating Temperature ($^{\circ}\text{C}$)	$-40^{\circ}\text{C}\sim +85^{\circ}\text{C}$
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	30A

PACKAGING CONFIGURATION

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

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		588Wp	593Wp	599Wp	604Wp	609Wp
5%	Maximum Power (P_{max})	588Wp	593Wp	599Wp	604Wp	609Wp
	Module Efficiency (%)	22.76%	22.97%	23.17%	23.37%	23.57%
15%	Maximum Power (P_{max})	644Wp	650Wp	656Wp	661Wp	667Wp
	Module Efficiency (%)	24.93%	25.15%	25.37%	25.60%	25.82%
25%	Maximum Power (P_{max})	700Wp	706Wp	713Wp	719Wp	725Wp
	Module Efficiency (%)	27.10%	27.34%	27.58%	27.82%	28.07%

WARRANTY

12-year product and 30-year linear power warranty

1st year degradation not to exceed 1%, each subsequent year not to exceed 0.4%, minimum power at year 30 is 87.4% or greater.

ELECTRICAL CHARACTERISTICS

Module Type	JKM565N-72HL4-BDV		JKM570N-72HL4-BDV		JKM575N-72HL4-BDV		JKM580N-72HL4-BDV		JKM585N-72HL4-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P_{max})	565Wp	425Wp	570Wp	429Wp	575Wp	432Wp	580Wp	436Wp	585Wp	440Wp
Maximum Power Voltage (V_{mp})	42.14V	39.52V	42.29V	39.65V	42.44V	39.78V	42.59V	39.87V	42.74V	40.03V
Maximum Power Current (I_{mp})	13.41A	10.75A	13.48A	10.81A	13.55A	10.87A	13.62A	10.94A	13.69A	10.99A
Open-circuit Voltage (V_{oc})	50.87V	48.32V	51.07V	48.51V	51.27V	48.70V	51.47V	48.89V	51.67V	49.08V
Short-circuit Current (I_{sc})	14.19A	11.46A	14.25A	11.50A	14.31A	11.55A	14.37A	11.60A	14.43A	11.65A
Module Efficiency STC (%)	21.87%		22.07%		22.26%		22.45%		22.65%	

*STC: ☀ Irradiance 1000W/m²

NOCT: ☀ Irradiance 800W/m²

🌡 Cell Temperature 25°C

🌡 Ambient Temperature 20°C

☁ AM = 1.5

☁ AM = 1.5

🌀 Wind Speed 1m/s

*Power measurement tolerance: $\pm 3\%$

The company reserves the final right for explanation on any of the information presented hereby. JKM565-585N-72HL4-BDV-F2-US

BUILDING YOUR TRUST IN SOLAR. WWW.JINKOSOLAR.US

Solar
Jinko

250/275 kW, 1500 Vdc String Inverters for North America



CPS SCH275KTL-DO/US-800

The 250/275 kW high power CPS three-phase string inverters are designed for ground-mount applications. The units are high performance, advanced and reliable inverters designed specifically for the North American environment and grid. High efficiencies, wide operating voltages, broad temperature ranges and NEMA Type 4X enclosure enable this inverter platform to operate at high performance across many applications. The SCH275KTL inverters include a selectable active power of either 250 kW or 275 kW (factory default) with 12 MPPTs and are available with either 36 fused PV string inputs or 24 unfused PV string inputs. The CPS FlexOM solution enables communication, controls and remote product upgrades.

Key Features

- NFPA 70, NEC 2017/2020 compliant
- Touch-safe DC fuse holders adds convenience and safety
- CPS FlexOM Gateway enables remote firmware upgrades
- Integrated DC disconnect switches
- Protection functions for enhanced reliability and safety
- Selectable max AC active power of 250 kW or 275 kW
- UL 1741-SA certified to CA Rule 21, including SA14-SA18
- 12 MPPTs with 36 fused inputs or 24 unfused inputs
- Copper and Aluminum compatible AC connections
- NEMA Type 4X outdoor rated, tough tested enclosure
- Full power capacity up to 42°C
- Standard 5-year warranty with extensions to 20 years
- Supported comm protocols (Modbus RTU, TCP/IP, PLC)
- UL 1741-SB and IEEE 1547-2018 certified

Model Name	CPS SCH275KTL-DO/US-800-36	CPS SCH275KTL-DO/US-800-24
DC Input		
Max. DC input voltage	1500 V	
Operating DC input voltage range	500-1450 Vdc	
Start-up DC input voltage / power	550 Vdc / 500 W	
MPPT voltage range @ PF>0.99 ¹	900-1300 Vdc	
Number of MPP trackers	12	12
Max. PV input current (clipping point)	26 A per MPPT	26 A per MPPT
Max. PV short-circuit current	600 A, 50 A per MPPT	600 A, 50 A per MPPT
Number of DC inputs	36 fused inputs, 3 per MPPT	24 non-fused inputs, 2 per MPPT
DC disconnection type	Load-rated DC switches	
DC surge protection	Type II	
AC Output		
Max AC output power (selectable) @ PF>0.99	250 kW / 275 kW	
Max. AC apparent power	275 kVA	
Rated output voltage	800 Vac	
Output voltage range ²	704-880 Vac	
Grid connection type	3-phase / PE	
Max. AC output current @ 800 Vac	198.5 A	
Rated output frequency	60 Hz	
Output frequency range ²	57 - 63 Hz	
Power factor	>0.99 (±0.8 adjustable)	
Current THD @ rated load	<3%	
Max. fault current contribution (1 cycle RMS)	215.2 A	
Max. OCPD rating	300 A	
AC surge protection	Type II	
System and Performance		
Max. efficiency	99.0%	
CEC efficiency	98.5%	
Stand-by / night consumption	5 W	
Environment		
Enclosure protection degree	NEMA Type 4X	
Cooling method	Variable speed cooling fans	
Operating temperature range ³	-22°F to +140°F / -30°C to +60°C (derating from +107°F / +42°C)	
Non-operating temperature range ³	-40°F to +140°F / -40°C to +60°C	
Operating humidity	0-100%	
Operating altitude	8202 ft / 2500 m (no derating)	
Audible noise	<80 dBA @ 1 m and 25°C	
Display and Communication		
User interface and display	LED indicators, WiFi + App	
Inverter monitoring	Modbus RS485 / Ethernet TCP/ IP ⁴ / PLC ⁵	
Site-level monitoring	CPS FlexOM (1 per 32 inverters)	
Modbus data mapping	SunSpec / CPS	
Remote diagnostics / firmware upgrade functions	Standard / (with FlexOM Gateway)	
Mechanical		
Dimensions (H x W x D)	27.2 x 41.3 x 15.7 in (690 x 1050 x 400 mm)	
Weight	Approx. 262 lbs (119 kg)	
Mounting / installation angle	Vertical installation	
AC termination	Stud type terminal (wire range: 3/0 AWG – 750 kcmil AL/CU, lugs not supplied)	
DC termination	36 fused input: screw clamp fuse holder (wire range: #14 - #8 AWG CU) 24 non-fused input: screw clamp terminal (wire range: #14 - #8 and #6 - #4 AWG CU) ⁶	
Fused string inputs (3 per MPPT) ⁷	20 A fuses provided (fuse values up to 30 A acceptable)	
Safety		
Certifications and standards	UL 1741-SA/SB Ed. 3, CSA-22.2 NO.107.1-16, IEEE 1547a-2014, IEEE 1547-2018, FCC PART 15	
Selectable grid standard	IEEE 1547a-2014, IEEE 1547-2018, CA Rule 21, ISO-NE	
Smart-grid features	Volt-RideThru, Freq-RideThru, Ramp-Rate, Specified-PF, Volt-VAR, Freq-Watt, Volt-Watt	
Protection Functions		
IV curve tracing ⁸	Yes	
Insulation resistance monitoring	Yes	
Onboard fault oscillography	Yes	
PV MPPT current monitoring	Yes	
Residual current monitoring	Yes	
Input reverse polarity protection	Yes	
Output overcurrent protection	Yes	
Output short-circuit protection	Yes	
Output overvoltage protection	Yes	
Warranty		
Standard	5 years	
Extended terms	10, 15 and 20 years	

1) See user manual for information regarding MPPT voltage range when operating at non-unity PF.

2) The output voltage and frequency ranges may differ according to the specific grid standard.

3) See user manual for further requirements regarding non-operating conditions.

4) CPS FlexOM Gateway required for Ethernet Modbus TCP/IP communication.

5) CPS AC-PLC Kit required for AC PLC communication.

6) One threaded hole per MPPT for connecting #6 - #4 AWG CU.

7) Fused string inputs only applicable to the SCH275KTL 36-input model.

8) CPS FlexOM Gateway and Portal access required for IV curve tracing.