



DEKLARACJA NIBE-BIAWAR

Firma Nibe-Biawar Sp. z o.o. z siedzibą w Białymstoku niniejszym oświadcza, iż panele fotowoltaiczne NIBE PV to panele serii JAM, model JAM6(K)(BK)-60-300/PR wyprodukowane przez firmę JA Solar Technology Co.,Ltd. Panele te posiadają certyfikat zgodności TUV o nr. Z2 18 02 72092 259.

Białystok, 19.06.2019.

BUSINESS UNIT MANAGER
NIBE-BIAWAR Sp. z o.o.


dr inż. Małgorzata Smuczyńska

Tłumaczenie uwierzytelnione z języka angielskiego

[strona 1 z 5]

/na lewym marginesie napis: CERTYFIKAT A1 / 07.17/

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Certyfikat

Nr Z2 18 02 72092 259

Posiadacz certyfikatu: Shanghai JA Solar Technology Co., Ltd. [Sp. z o.o.], Nr 118, Lane 3111, West Huancheng Road, Okręg Fengxian, 201401 Szanghaj, Chińska Republika Ludowa

Zakłady produkcyjne: 72092, 79395, 90968, 72056, 95903, 97323

Znak certyfikacji: /znak TÜV SÜD/

/kod QR/

Produkt:

Naziemne Moduły Fotowoltaiczne z Krzemu Krystalicznego,
Moduł Monokrystaliczny Fotowoltaiczny z Krzemu

Model:

JAM5(R)-72-xxx, JAM5(BK)-72-xxx,

xxx = 195 do 220 co 5;

Inne znajdują się w załączniku

xxx oznacza znamionową moc wyjściową w standardowych warunkach testowych

Parametry:

Znamionowa moc wyjściowa w standardowych warunkach testowych: Zobacz załącznik

Budowa: Oprawiona, ze skrzynką przyłączową, kablem i złączami

Laboratorium testowe: Yangzhou Opto-Electrical Products Testing Institute [Instytut Badawczy Produktów Optyczno-Elektrycznych], No. 10 West Kaifa Road, Yangzhou, 225009 Jiangsu, Chińska Republika Ludowa

Klasa zastosowania: Klasa A

Maksymalne napięcie w układzie: 1000 V DC lub 1500 V DC, zobacz załącznik

Klasa bezpieczeństwa przeciwpożarowego: Klasa C

Przetestowany zgodnie z:

IEC 61215(ed.2)

IEC 61730-1(ed.1);am1;am2

IEC 61730-2(ed.1);am1

Produkt został przetestowany dobrowolnie i spełnia niezbędne wymagania. Powyższy znak certyfikacji może zostać umieszczony na produkcie. Zabrania się zmiany znaku certyfikacji w jakikolwiek sposób. Dodatkowo, posiadacz certyfikatu nie może przenosić certyfikatu na osoby trzecie. Zobacz również uwagi na odwrocie.

Nr sprawozdania testowego: 704061209505-25

Ważny do: 01-02-2023

/naklejka z kodem QR/

Data: 09-03-2018

Strona 1 z 5

(Zhulin Zhang)
/podpis nieczytelny/

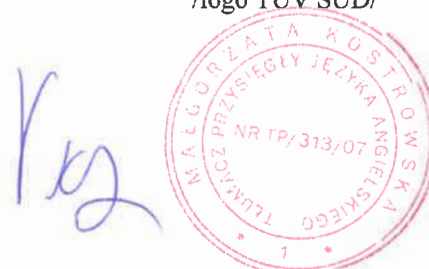
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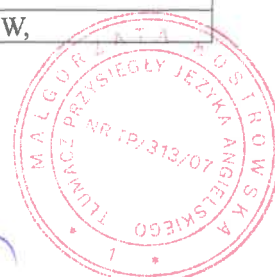


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Następujące modele są objęte powyższym certyfikatem:

Maksymalne napięcie w układzie: 1000 V DC	
Model	Znamionowa moc wyjściowa w standardowych warunkach testowych
JAM5(R)-72-xxx, JAM5(R)(BK)-72-xxx, xxx= 195 do 220 co 5;	195 W, 200 W, 205 W, 210 W, 215 W, 220 W;
JAM5-72-xxx, JAM5(BK)-72-xxx, xxx= 155 do 195 co 5;	155 W, 160 W, 165 W, 170 W, 175 W, 180 W, 185 W, 190 W, 195 W;
JAM5(L)-72-xxx, JAM5(L)(BK)-72-xxx, xxx= 155 do 215 co 5;	155 W, 160 W, 165 W, 170 W, 175 W, 180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W, 215 W;
JAM 5-72-xxx/S I, JAM 5(BK)-72-xxx/S I, xxx= 180 do 210 co 5;	180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W;
JAM5(L)-72-xxx/SI, JAM5(L)(BK)-72-xxx/SI, xxx= 180 do 220 co 5;	180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W, 215 W, 220 W;
JAM5(L)-96-xxx, JAM5(L)(BK)-96-xxx, xxx= 210 do 260 co 5;	210 W, 215 W, 220 W, 225 W, 230 W, 235 W, 240 W, 245 W, 250 W, 255 W, 260 W;
JAM 5(L)-96-xxx/S I, JAM 5(L)(B K)-96-xxx/S I; xxx= 240 do 290 co 5;	240 W, 245 W, 250 W, 255 W, 260 W, 265 W, 270 W, 275 W, 280 W, 285 W, 290 W;
JAM6-72-xxx, JAM6(BK)-72-xxx, xxx= 255 do 305 co 5;	255 W, 260 W, 265 W, 270 W, 275 W, 280 W, 285 W, 290 W, 295 W, 300 W, 305 W;
JAM6-72-xxx/SI, JAM6(BK)-72-xxx/SI, JAM6(SE)- 72-xxx/SI xxx= 285 do 325 co 5;	285 W, 290 W, 295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325 W;
JAM6-60-xxx, JAM6(BK)-60-xxx, xxx= 200 do 250 co 5;	200 W, 205 W, 210 W, 215 W, 220 W, 225 W, 230 W, 235 W, 240 W, 245 W, 250 W;
JAM6-60-xxx/3BB, JAM6(BK)-60-xxx/3BB, xxx= 200 do 275 co 5;	200 W, 205 W, 210 W, 215 W, 220 W, 225 W, 230 W, 235 W, 240 W, 245 W, 250 W, 255 W, 260 W, 265 W, 270 W, 275 W;
JAM6-60-xxx/SI, JAM6(BK)-60-xxx/SI, JAM6(SE)- 60-xxx/SI, xxx= 235 do 280 co 5;	235 W, 240 W, 245 W, 250 W, 255 W, 260 W, 265 W, 270 W, 275 W, 280 W;
JAM6-54-xxx, JAM6(BK)-54-xxx; xxx= 180 do 225 co 5;	180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W, 215 W, 220 W, 225 W;
JAM6-54-xxx/3BB, JAM6(BK)-54-xxx/3BB; xxx= 180 do 250 co 5;	180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W, 215 W, 220 W, 225 W, 230 W, 235 W, 240 W, 245 W, 250 W;
JAM6-72-XXX/3BB, JAM6(BK)-72-xxx/3BB, xxx= 310 do 330 co 5;	310 W, 315 W, 320 W, 325 W, 330 W;
JAM6-54-xxx/SI, JAM6(BK)-54-xxx/SI, xxx= 225 do 240 co 5;	225 W, 230 W, 235 W, 240 W;
JAM6(R)-54-xxx, JAM6(R)(BK)-54-xxx,	230 W, 235 W, 240 W,

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xxx=230 do 250 co 5; JAM6(R)-48-xxx, JAM6(R)(BK)-48-xxx, xxx=205 do 225 co 5;	245 W, 250 W; 205 W, 210 W, 215 W,
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JAM6-48-xxx/SI, JAM6(BK)-48-xxx/SI, xxx=200 do 220 co 5;	220 W, 205 W, 210 W, 215 W, 220 W;
JAM6(R)-72-xxx, JAM6(R)(BK)-72-xxx, xxx=295 do 340 co 5;	295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325 W, 330 W, 335 W, 340 W;
JAM6(R)-60-xxx, JAM6(R)(BK)-60-xxx, JAM6(L)-60-xxx, JAM6(L)(BK)-60-xxx, JAM6-60- xxx/4BB, xxx=2250 do 280 co 5;	225 W, 260 W, 265 W, 270 W, 275 W, 280 W;
JAM6(L0-72-xxx, JAM6(L)(BK)-72-xxx, xxx=295 do 335 co 5;	295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325 W, 330 W, 335 W;
JAM6(TG)-60-xxx/SI, JAM6(BK)(TG)-60-xxx/SI, JAM6(BK)(SE)-60-xxx/SI, xxx=250 do 280 co 5;	250 W, 255 W, 260 W, 265 W, 270 W, 275 W, 280 W;
JAM6(FA)-60-xxx/SI, xxx=255 do 275 co 5;	255 W, 260 W, 265 W, 270 W, 275 W;
JAM6(FA)-48-xxx/SI, xxx=205 do 220 co 5;	205 W, 210 W, 215 W, 220 W;
JAM6(R)(FA)-48-xxx, JAM6(K)-48-xxx/488, JAM6(K)(BK)-48-xxx/4BB, xxx= 21 O do 225 co 5;	210 W, 215 W, 220 W, 225 W;
JAM6-72-xxx/4BB, xxx=310 do 335 co 5;	310 W, 315 W, 320 W, 325 W, 330 W, 335 W;
JAM6(R)-72-xxx/PR, JAM6(R)(BK)-72-xxx/PR, xxx=330 do 350 co 5;	330 W, 335 W, 340 W, 345 W, 350 W;
JAM6(R)-60-xxx/PR, JAM6(R)(BK)-60-xxx/PR, xxx=280 do 295 co 5;	280 W, 285 W, 290 W, 295 W;
JAM6(R)-48-xxx/PR, JAM6(R)(BK)-48-xxx/PR, JAM6(K)-48-xxx/PR, JAM6(K)(BK)-48-xxx/PR, xxx=220 do 235 co 5;	220 W, 225 W, 230 W, 235 W;
JAM6-72-xxx/PR, JAM6(BK)-72-xxx/PR, JAM6(L)-72-xxx/PR, JAM6(L)(BK)-72-xxx/PR, JAM6(L)(TG)-72-xxx/PR, JAM6(L)(BK)(TG)-72- xxx/PR, xxx=325 do 345 co 5; JAM6(L)-60-xxx/PR, JAM6(L)(	325 W, 330 W, 335 W, 340 W, 345 W;
JAM6(L)-60-xxx/PR, JAM6(L)(BK)-60-xxx/PR, xxx=270 do 295 co 5;	270 W, 275 W, 280 W, 285 W, 290 W, 295 W;
JAM6(L)-54-xxx/PR, JAM6(L)(BK)-54-xxx/PR, xxx=250 do 270 co 5;	250 W, 255 W, 260 W, 265 W, 270 W;
JAM6-48-xxx/PR, JAM6(BK)-48-xxx/PR,	215 W, 220 W, 225 W,

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JAM6(L)-48-xxx/PR, JAM6(L)(BK)-48-xxx/PR, xxx= 215 do 235 w 5;	230W,235W;
JAM6(R)(SE)-72-xxx, JAM6(R)(BK)(SE)-72-xxx, xxx= 305 do 330 w 5;	305 W, 310 W, 315 W, 320 W, 325W, 330W;
JAM6(R)(FA)-60-xxx, JAM6(R)(SE)-60-xxx, JAM6(R)(BK)(SE)-60-xxx, JAM6(R)(TG)-60-xxx, JAM6(R)(BK)(TG)-60-xxx, xxx= 260 do 280 w;;	260 W,265 W, 270 W,275 W, 280W;
JAM6(L)(SE)-60-xxx/PR, JAM6(L)(TG)-60-xxx/PR, JAM6(L)(BK)(SE)-60-xxx/PR, JAM6-60-xxx/PR, JAM6(BK)-60-xxx/PR, xxx= 275 do 295 w 5;	275 W, 280 W, 285 W, 290 W, 295W;
JAM6(TG)-72-xxx/SI, JAM6(BK)(TG)-72-xxx/SI, JAM6(BK)(SE)-72-xxx/SI, xxx= 300 do 325 w 5;	300 W, 305 W, 310 W, 315 W, 320W, 325W;
JAM6(R)(TG)-72-xxx, JAM6(R)(BK)(TG)-72-xxx, xxx= 305 do 340 w 5;	305 W, 310 W, 315 W, 320 W, 325 W, 330 W, 335 W, 340 W;
JAM6(L)-72-xxx/4BB, JAM6(L)(BK)-72-xxx/488, xxx= 320 do 335 w 5;	320W, 325W, 330W, 335W;

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JAM6(L)-60-xxx/4BB, JAM6(L)(SE)-60-xxx/4BB, JAM6(L)(TG)-60-xxx/4BB, JAM6(L)(BK)-60- xxx/4BB, JAM6(L)(BK)(SE)-60-xxx/4BB, JAM6(L)(BK)(TG)- 60- xxx/48B, xxx= 265 do 280 i n step of 5;	265W,270W, 275W,280W;
JAM6(K)-72-xxx/4BB, JAM6(K)(BK)-72-xxx/4BB, JAM72S02-xxx/SC, JAM6(K)(TG)-72-xxx/4BB, JAM72S04-xxx/SC, xxx= 320 do 340 w 5;	320 W, 325 W, 330 W, 335 W, 340W;
JAM6(K)-54-xxx/4BB, xxx= 235 do 250 w 5;	235 W, 240 W, 245 W, 250 W;
JAM6(K)-72-xxx/PR, JAM6(K)(BK)-72-xxx/PR, JAM72S02-xxx/PR, JAM6(K)(BK)(TG)-72-xxx/PR, JAM6(K)(TG)-72-xxx/PR, JAM72S06-xxx/PR, JAM72S04-xxx/PR, xxx= 325 do 360 w 5;	325 W, 330 W, 335 W, 340 W, 345 W, 350 W,355 W, 360 W;
JAM6(K)-60-xxx/PR, JAM6(K)(BK)-60-xxx/PR, JAM60S02-xxx/PR, xxx= 275 do 305 w 5;	275 W, 280 W, 285 W, 290 W, 295 W, 300 W,305W;
JAM6(K)-54-xxx/PR, JAM6(K)(BK)-54-xxx/PR, xxx= 250 do 265 w 5;	250W,255W, 260W,265W;
JAM6(K)-60-xxx/4BB, JAM6(K)(BK)-60-xxx/4BB, JAM6(K)(SE)-60-xxx/4BB, JAM6(K)(BK)(SE)-60- xxx/4BB, JAM6(K)(TG)-60-xxx/4BB,	265 W, 270 W, 275 W, 280 W, 285W,290W;

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JAM6(K)(BK)(TG)-60-xxx/4BB, JAM60S02-xxx/SC, JAM60S05-xxx/SC, JAM60S07- -xxx/SC, JAM60S04-xxx/SC, JAM60S06-xxx/SC, JAM6(K)(FA)-60-xxx/4BB, xxx= 265 do 290 co 5;	
JAM6(K)(SE)-60-xxx/PR, JAM6(K)(BK)(SE)-60- xxx/PR, JAM6(K)(TG)-60-xxx/PR, JAM6(K)(BK)(TG)-60-xxx/PR, JAM60S05-xxx/PR, JAM60S07-xxx/PR, JAM60S04-xxx/PR, JAM60S06-xxx/PR, xxx= 275 do 300 co 5;	275 W, 280 W, 285 W, 290 W, 295W, 300W;
JAM6(L)(SE)-72-xxx/PR, JAM6(L)(BK)(SE)-72- xxx/PR, JAM6(K)(SE)-72-xxx/PR, JAM6(K)(BK)(SE)-72-xxx/PR, JAM72S05-xxx/PR, JAM72S07-xxx/PR, xxx= 325 do 330 co 5;	325W, 330W;
JAM6(K)(SE)-72-xxx/4BB, JAM72S05-xxx/SC, xxx= 320 do 330 co 5;	320 W, 325 W, 330 W;

Maksymalne napięcie w układzie: 1500 V DC	
Model	Znamionowa moc wyjściowa w standardowych warunkach testowych
JAM6-72-xxx/SL/1500V, xxx =285 do 325 co 5;	285 W, 290 W, 295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325W;
JAM6-60-xxx/SL/1500V, xxx =235 do 280 co 5;	235 W, 240 W, 245 W, 250 W, 255 W, 260 W, 265 W, 270 W, 275W, 280W;
JAM6(R)-72-xxx/1500V, xxx =295 do 340 co 5;	295 W, 300 W, 305 W, 310 W, 315W, 320W, 325W, 330W, 335W, 340W;
JAM6(R)-60-xxx/1500V, JAM6-60-xxx/4BB/1500V, xxx =255 do 280 co 5;	255 W, 260 W, 265 W, 270 W, 275W, 280W;
JAM6-72-xxx/4BB/1500V, xxx =310 do 335 co 5;	310 W, 315 W, 320 W, 325 W, 330W, 335W;
JAM6(L)-72-xxx/PR/1500V, xxx =325 do 345 co 5;	325 W, 330 W, 335 W, 340 W, 345W;
JAM6(L)-60-xxx/PR/1500V, xxx =270 do 295 co 5;	270 W, 275 W, 280 W, 285 W, 290W, 295W;

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JAM6(K)-72-xxx/PR/1500V, xxx= 335 do 360 co 5;	335 W, 340 W, 345 W, 350 W, 355 W, 360 W;
JAM6(K)-60-xxx/PR/1500V,	280 W, 285 W, 290 W, 295 W,

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xxx= 280 do 300 co 5;	300 W;
JAM6(K)-72-xxx/4BB/1500V, xxx =320 do 340 co 5;	320 W, 325 W, 330 W, 335 W, 340 W;
JAM6(K)-60-xxx/4BB /1500V, xxx =265 do 285 co 5;	265 W, 270 W, 275 W, 280 W, 285 W;

Maksymalne napięcie w układzie: 1000 V DC lub 1500 V DC	
Model	Znamionowa moc wyjściowa w standardowych warunkach testowych
JAM72S01-xxx/PR, xxx= 335 do 360 co 5;	325 W, 330 W, 335 W, 340 W, 345 W, 350 W, 355 W, 360 W;
JAM60S01-xxx/PR, xxx= 280 do 305 co 5;	275 W, 280 W, 285 W, 290 W, 295 W, 300 W, 305 W;
JAM72S01-xxx/SC, xxx =320 do 340 co 5;	320 W, 325 W, 330 W, 335 W, 340 W;
JAM60S01-xxx/SC, xxx =265 do 290 co 5;	265 W, 270 W, 275 W, 280 W, 285 W, 290 W;
JAM72S03-xxx/PR, xxx = 355 do 400 co 5;	355 W, 360 W, 365 W, 370 W, 375 W, 380 W, 385 W, 390 W, 395 W, 400 W;
JAM60S03-xxx/PR, xxx = 295 do 335 co 5;	295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325 W, 330 W, 335 W;

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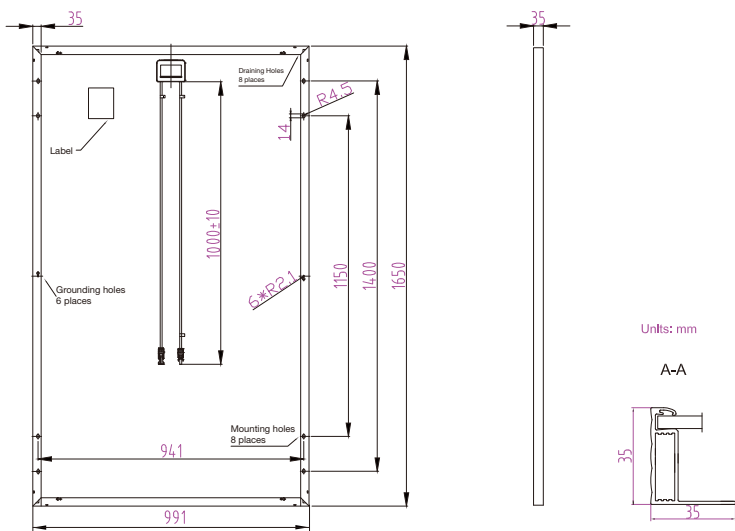
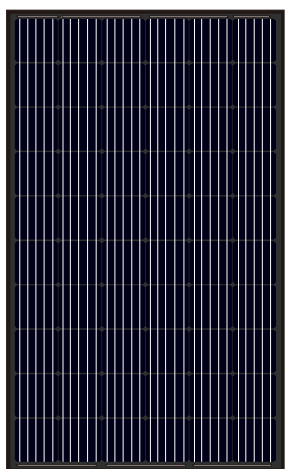
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Ja, Małgorzata Kostrowska tłumacz przysięgły języka angielskiego (wpisana na listę tłumaczy przysięgłych Ministra Sprawiedliwości pod Nr/313/07), zaświadczam zgodność powyższego tłumaczenia z przedłożonym dokumentem sporządzonym w języku angielskim.
 Nr rep.: 4666/2018
 Data: 01.08.2018



MECHANICAL DIAGRAMS



SPECIFICATIONS

Cell	Mono 156.75x156.75mm
Weight	18.2kg±3%
Dimensions	1650×991×35mm
Cable Cross Section Size	4mm ²
No. of cells	60 (6×10)
Junction Box	IP67, 3 diodes
Connector	MC4 Compatible
Packaging Configuration	30 Per Pallet

OPERATING CONDITIONS

Maximum System Voltage	1000V DC (IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	20A
Maximum Static Load, Front Maximum Static Load, Back	5400Pa 2400Pa
NOCT	45±2°C
Application Class	Class A

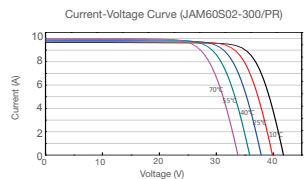
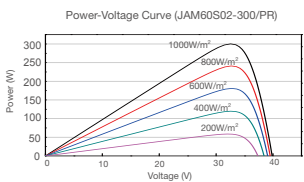
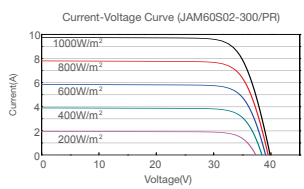
ELECTRICAL PARAMETERS AT STC

TYPE	JAM60S02 -285/PR	JAM60S02 -290/PR	JAM60S02 -295/PR	JAM60S02 -300/PR	JAM60S02 -305/PR
Rated Maximum Power (Pmax) [W]	285	290	295	300	305
Open Circuit Voltage (Voc) [V]	39.25	39.46	39.64	39.85	40.05
Maximum Power Voltage (Vmp) [V]	31.70	31.80	32.03	32.26	32.57
Short Circuit Current (Isc) [A]	9.46	9.57	9.66	9.75	9.85
Maximum Power Current (Imp) [A]	8.99	9.12	9.21	9.30	9.37
Module Efficiency [%]	17.43	17.74	18.04	18.35	18.65
Power Tolerance	-0~+5W				
Temperature Coefficient of Isc (α _{Isc})	+0.060%/°C				
Temperature Coefficient of Voc (β _{Voc})	-0.300%/°C				
Temperature Coefficient of Pmax (γ _{Pmp})	-0.390%/°C				
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM 1.5G				

ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM60S02 -285/PR	JAM60S02 -290/PR	JAM60S02 -295/PR	JAM60S02 -300/PR	JAM60S02 -280/PR
Max Power (Pmax) [W]	209	213	217	221	224
Open Circuit Voltage (Voc) [V]	36.11	36.34	36.57	36.75	36.95
Max Power Voltage (Vmp) [V]	29.37	29.56	29.63	29.69	29.90
Short Circuit Current (Isc) [A]	7.53	7.61	7.69	7.78	7.86
Max Power Current (Imp) [A]	7.13	7.21	7.32	7.43	7.50
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1 m/s, AM 1.5G				

CHARACTERISTICS



305W Mono Si 60Cells

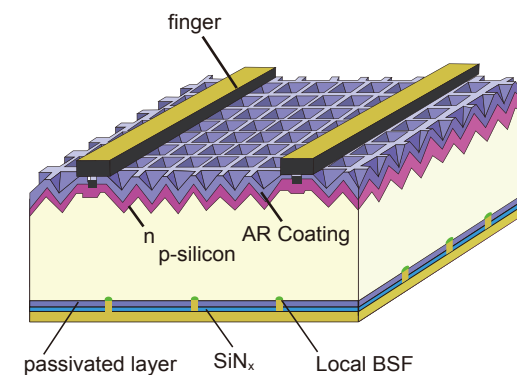


Harvest the Sunshine
Premium Cells, Premium Modules

Percium Cell

- The mono cell technology with passivated backside and local BSF
- >21% average mass production efficiency

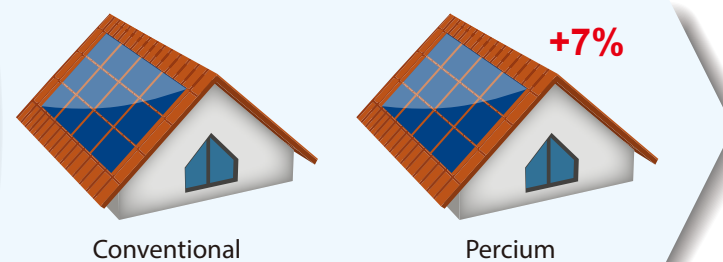
Average Mass Production Efficiency >21%



More Power Per m²

Higher conversion efficiency - more power production per unit area

Benefit: 7% More Power



Percium module 300Wp VS Conventional module 280Wp

Lower System Cost

Higher conversion efficiency help you save

- Transportation cost
- Installation cost
- BOS cost

Benefit: Save System Costs Per Watt

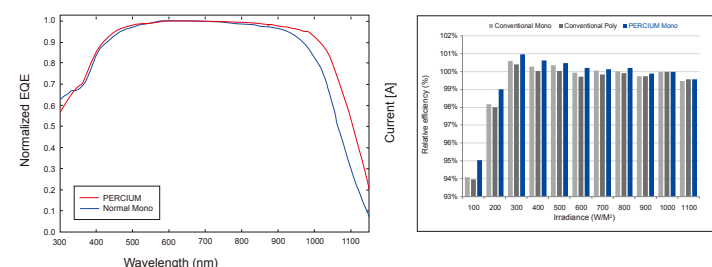


Cost saving estimation made by comparison between 280W and 300W modules

Excellent Low-light Performance

Enhanced spectral response at longer wavelength boosts low-light performance, which can produce more than 3% additional power compared with conventional module at system side.

Benefit: Excellent Low-light Performance



EQE—External quantum efficiency

Relative module efficiency comparison under different irradiance

Source: TÜV Rheinland

High Reliability

- Long-term reliability tests
- Harsh climate environment endurance tests
- PID-resistance tests in accordance to IEC62804
- Certified by TÜV SÜD and ETL
- Industry-leading cell technology
- High quality components from best suppliers
- Manufacturing inspected and certified by PI-Berlin and Solar-IF
- 100% in-house automatic manufacturing



Other Features

- Positive power tolerance: 0~+5W
- Modules binned by current to improve system performance
- Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and heavy snow loads (5400Pa)

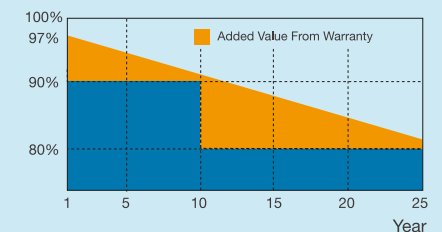
JA Solar Holdings Co., Ltd.

JA Solar Holdings Co., Ltd is a world leading manufacturer of high-performance solar power products that convert sunlight into electricity for residential, commercial and utility-scale power generation. The company was founded in May 2005 and publicly listed on NASDAQ in February 2007. JA Solar has been the world's leading cell producer since 2010, and has firmly established itself as a tier 1 module supplier since 2012. Capitalizing on our strength in solar cell technology, we are committed to provide modules with unparalleled conversion efficiency, yield efficiency, and reliability to enable you to maximize your returns on PV projects. With its leading industry experience, continuous effort on R&D, customer-oriented service and solid financial status, JA Solar is your best choice of long-term trustworthy partner.

Add: Building No.8, Nuode Center, Automobile Museum East Road, Fengtai District, Beijing, China
Tel: +86 (10) 63611888
Fax: +86 (10) 63611999
Email: sales@jasolar.com market@jasolar.com

Product Warranty

- 12-year product warranty
- 25-year linear power warranty



Additional Insurance Options



Partner Section

Comprehensive Certificates

- IEC 61215, IEC 61730, UL1703, CEC Listed, MCS and CE
- ISO 9001: 2008: Quality management systems
- ISO 14001: 2004: Environmental management systems
- BS OHSAS 18001: 2007: Occupational health and safety management systems
- Environmental policy: The first solar company in China to complete Intertek's carbon footprint evaluation program and receive green leaf mark verification for our products



Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.



Product Service

CERTIFICATE

No. Z2 18 02 72092 259

Holder of Certificate: **Shanghai JA Solar Technology Co., Ltd.**

No. 118, Lane 3111,
West Huancheng Road
Fengxian District
201401 Shanghai
PEOPLE'S REPUBLIC OF CHINA

Production
Facility(ies):

72092, 79395, 90968, 72056, 95903, 97323

Certification Mark:



Product:

Crystalline Silicon Terrestrial Photovoltaic (PV) Modules
Mono-Crystalline Silicon Photovoltaic Module

Model(s):

JAM5(R)-72-xxx, JAM5(R)(BK)-72- xxx,
xxx= 195 to 220 in step of 5;
Others see the attachment
xxx is standing for rated output power at STC

Parameters:

Rated Output Power
at STC:

See attachment

Construction:

Framed, with Junction box,
Cable and Connectors.

Test Laboratory:

Yangzhou Opto-Electrical
Products Testing Institute;
No. 10 West Kaifa Road,
Yangzhou, 225009 Jiangsu, P. R. China

Application Class:

Class A

Maximum System Voltage:

1000 V DC or 1500 V DC,
see the attachment

Fire Safety Class:

Class C

Tested according to:

IEC 61215(ed.2)
IEC 61730-1(ed.1);am1;am2
IEC 61730-2(ed.1);am1

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.:

704061209505-25

Valid until:

2023-02-01

Date, 2018-03-09

(Zhulin Zhang)

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CERTIFICATE

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Product Service

The following models will be covered by above certificate:

Maximum System Voltage: 1000 V DC	
Model	Rated Output Power at STC
JAM5(R)-72-xxx, JAM5(R)(BK)-72-xxx, xxx= 195 to 220 in step of 5;	195 W, 200 W, 205 W, 210 W, 215 W, 220 W;
JAM5-72-xxx, JAM5(BK)-72-xxx, xxx= 155 to 195 in step of 5;	155 W, 160 W, 165 W, 170 W, 175 W, 180 W, 185 W, 190 W, 195 W;
JAM5(L)-72-xxx, JAM5(L)(BK)-72-xxx, xxx= 155 to 215 in step of 5;	155 W, 160 W, 165 W, 170 W, 175 W, 180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W, 215 W;
JAM5-72-xxx/SI, JAM5(BK)-72-xxx/SI, xxx= 180 to 210 in step of 5;	180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W;
JAM5(L)-72-xxx/SI, JAM5(L)(BK)-72-xxx/SI, xxx= 180 to 220 in step of 5;	180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W, 215 W, 220 W;
JAM5(L)-96-xxx, JAM5(L)(BK)-96-xxx, xxx= 210 to 260 in step of 5;	210 W, 215 W, 220 W, 225 W, 230 W, 235 W, 240 W, 245 W, 250 W, 255 W, 260 W;
JAM5(L)-96-xxx/SI, JAM5(L)(BK)-96-xxx/SI; xxx= 240 to 290 in step of 5;	240 W, 245 W, 250 W, 255 W, 260 W, 265 W, 270 W, 275 W, 280 W, 285 W, 290 W;
JAM6-72-xxx, JAM6(BK)-72-xxx, xxx= 255 to 305 in step of 5;	255 W, 260 W, 265 W, 270 W, 275 W, 280 W, 285 W, 290 W, 295 W, 300 W, 305 W;
JAM6-72-xxx/SI, JAM6(BK)-72-xxx/SI, JAM6(SE)-72-xxx/SI xxx= 285 to 325 in step of 5;	285 W, 290 W, 295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325 W;
JAM6-60-xxx, JAM6(BK)-60-xxx, xxx= 200 to 250 in step of 5;	200 W, 205 W, 210 W, 215 W, 220 W, 225 W, 230 W, 235 W, 240 W, 245 W, 250 W;
JAM6-60-xxx/3BB, JAM6(BK)-60-xxx/3BB, xxx= 200 to 275 in step of 5;	200 W, 205 W, 210 W, 215 W, 220 W, 225 W, 230 W, 235 W, 240 W, 245 W, 250 W, 255 W, 260 W, 265 W, 270 W, 275 W;
JAM6-60-xxx/SI, JAM6(BK)-60-xxx/SI, JAM6(SE)-60- xxx/SI, xxx= 235 to 280 in step of 5;	235 W, 240 W, 245 W, 250 W, 255 W, 260 W, 265 W, 270 W, 275 W, 280 W;
JAM6-54-xxx, JAM6(BK)-54-xxx; xxx= 180 to 225 in step of 5;	180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W, 215 W, 220 W, 225 W;
JAM6-54-xxx/3BB, JAM6(BK)-54-xxx/3BB; xxx= 180 to 250 in step of 5;	180 W, 185 W, 190 W, 195 W, 200 W, 205 W, 210 W, 215 W, 220 W, 225 W, 230 W, 235 W, 240 W, 245 W, 250 W;
JAM6-72-xxx/3BB, JAM6(BK)-72-xxx/3BB, xxx= 310 to 330 in step of 5;	310 W, 315 W, 320 W, 325 W, 330 W;
JAM6-54-xxx/SI, JAM6(BK)-54-xxx/SI, xxx= 225 to 240 in step of 5;	225 W, 230 W, 235 W, 240 W;
JAM6(R)-54-xxx, JAM6(R)(BK)-54-xxx, xxx= 230 to 250 in step of 5;	230 W, 235 W, 240 W, 245 W, 250 W;
JAM6(R)-48-xxx, JAM6(R)(BK)-48-xxx,	205 W, 210 W, 215 W,

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Product Service

xxx=205 to 225 in step of 5;	220 W, 225 W;
JAM6-48-xxx/SI, JAM6(BK)-48-xxx/SI, xxx=200 to 220 in step of 5;	200 W, 205 W, 210 W, 215 W, 220 W;
JAM6(R)-72-xxx, JAM6(R)(BK)-72-xxx, xxx=295 to 340 in step of 5;	295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325 W, 330 W, 335 W, 340 W;
JAM6(R)-60-xxx, JAM6(R)(BK)-60-xxx, JAM6(L)-60-xxx, JAM6(L)(BK)-60-xxx, JAM6-60-xxx/4BB, xxx=255 to 280 in step of 5;	255 W, 260 W, 265 W, 270 W, 275 W, 280 W;
JAM6(L)-72-xxx, JAM6(L)(BK)-72-xxx, xxx=295 to 335 in step of 5;	295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325 W, 330 W, 335 W
JAM6(TG)-60-xxx/SI, JAM6(BK)(TG)-60-xxx/SI, JAM6(BK)(SE)-60-xxx/SI, xxx=250 to 280 in step of 5;	250 W, 255 W, 260 W, 265 W, 270 W, 275 W, 280 W;
JAM6(FA)-60-xxx/SI, xxx=255 to 275 in step of 5;	255 W, 260 W, 265 W, 270 W, 275 W;
JAM6(FA)-48-xxx/SI, xxx=205 to 220 in step of 5;	205 W, 210 W, 215 W, 220 W;
JAM6(R)(FA)-48-xxx, JAM6(K)-48-xxx/4BB, JAM6(K)(BK)-48-xxx/4BB, xxx= 210 to 225 in step of 5;	210 W, 215 W, 220 W, 225 W;
JAM6-72-xxx/4BB, xxx=310 to 335 in step of 5;	310 W, 315 W, 320 W, 325 W, 330 W, 335 W;
JAM6(R)-72-xxx/PR, JAM6(R)(BK)-72-xxx/PR, xxx=330 to 350 in step of 5;	330 W, 335 W, 340 W, 345 W, 350 W;
JAM6(R)-60-xxx/PR, JAM6(R)(BK)-60-xxx/PR, xxx=280 to 295 in step of 5;	280 W, 285 W, 290 W, 295 W;
JAM6(R)-48-xxx/PR, JAM6(R)(BK)-48-xxx/PR, JAM6(K)-48-xxx/PR, JAM6(K)(BK)-48-xxx/PR, xxx=220 to 235 in step of 5;	220 W, 225 W, 230 W, 235 W;
JAM6-72-xxx/PR, JAM6(BK)-72-xxx/PR, JAM6(L)-72-xxx/PR, JAM6(L)(BK)-72-xxx/PR, JAM6(L)(TG)-72-xxx/PR, JAM6(L)(BK)(TG)-72-xxx/PR, xxx=325 to 345 in step of 5;	325 W, 330 W, 335 W, 340 W, 345 W,
JAM6(L)-60-xxx/PR, JAM6(L)(BK)-60-xxx/PR, xxx=270 to 295 in step of 5;	270 W, 275 W, 280 W, 285 W, 290 W, 295 W;
JAM6(L)-54-xxx/PR, JAM6(L)(BK)-54-xxx/PR, xxx=250 to 270 in step of 5;	250 W, 255 W, 260 W, 265 W, 270 W;
JAM6-48-xxx/PR, JAM6(BK)-48-xxx/PR, JAM6(L)-48-xxx/PR, JAM6(L)(BK)-48-xxx/PR, xxx=215 to 235 in step of 5;	215 W, 220 W, 225 W, 230 W, 235 W;
JAM6(R)(SE)-72-xxx, JAM6(R)(BK)(SE)-72-xxx, xxx=305 to 330 in step of 5;	305 W, 310 W, 315 W, 320 W, 325 W, 330 W;
JAM6(R)(FA)-60-xxx, JAM6(R)(SE)-60-xxx, JAM6(R)(BK)(SE)-60-xxx, JAM6(R)(TG)-60-xxx, JAM6(R)(BK)(TG)-60-xxx, xxx=260 to 280 in step of 5;	260 W, 265 W, 270 W, 275 W, 280 W;
JAM6(L)(SE)-60-xxx/PR, JAM6(L)(TG)-60-xxx/PR, JAM6(L)(BK)(SE)-60-xxx/PR, JAM6-60-xxx/PR, JAM6(BK)-60-xxx/PR, xxx=275 to 295 in step of 5;	275 W, 280 W, 285 W, 290 W, 295 W;
JAM6(TG)-72-xxx/SI, JAM6(BK)(TG)-72-xxx/SI, JAM6(BK)(SE)-72-xxx/SI, xxx=300 to 325 in step of 5;	300 W, 305 W, 310 W, 315 W, 320 W, 325 W;
JAM6(R)(TG)-72-xxx, JAM6(R)(BK)(TG)-72-xxx, xxx=305 to 340 in step of 5;	305 W, 310 W, 315 W, 320 W, 325 W, 330 W, 335 W, 340 W;
JAM6(L)-72-xxx/4BB, JAM6(L)(BK)-72-xxx/4BB, xxx=320 to 335 in step of 5;	320 W, 325 W, 330 W, 335 W;

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Product Service

JAM6(L)-60-xxx/4BB, JAM6(L)(SE)-60-xxx/4BB, JAM6(L)(TG)-60-xxx/4BB, JAM6(L)(BK)-60-xxx/4BB, JAM6(L)(BK)(SE)-60-xxx/4BB, JAM6(L)(BK)(TG)-60- xxx/4BB, xxx= 265 to 280 in step of 5;	265 W, 270 W, 275 W, 280 W;
JAM6(K)-72-xxx/4BB, JAM6(K)(BK)-72-xxx/4BB, JAM72S02-xxx/SC, JAM6(K)(TG)-72-xxx/4BB, JAM72S04-xxx/SC, xxx= 320 to 340 in step of 5;	320 W, 325 W, 330 W, 335 W, 340 W;
JAM6(K)-54-xxx/4BB, xxx= 235 to 250 in step of 5;	235 W, 240 W, 245 W, 250 W;
JAM6(K)-72-xxx/PR, JAM6(K)(BK)-72-xxx/PR, JAM72S02-xxx/PR, JAM6(K)(BK)(TG)-72-xxx/PR, JAM6(K)(TG)-72-xxx/PR, JAM72S06-xxx/PR, JAM72S04-xxx/PR, xxx= 325 to 360 in step of 5;	325 W, 330 W, 335 W, 340 W, 345 W, 350 W, 355 W, 360 W;
JAM6(K)-60-xxx/PR, JAM6(K)(BK)-60-xxx/PR, JAM60S02-xxx/PR, xxx= 275 to 305 in step of 5;	275 W, 280 W, 285 W, 290 W, 295 W, 300 W, 305 W;
JAM6(K)-54-xxx/PR, JAM6(K)(BK)-54-xxx/PR, xxx= 250 to 265 in step of 5;	250 W, 255 W, 260 W, 265 W;
JAM6(K)-60-xxx/4BB, JAM6(K)(BK)-60-xxx/4BB, JAM6(K)(SE)-60-xxx/4BB, JAM6(K)(BK)(SE)-60-xxx/4BB, JAM6(K)(TG)-60-xxx/4BB, JAM6(K)(BK)(TG)-60-xxx/4BB, JAM60S02-xxx/SC, JAM60S05-xxx/SC, JAM60S07- xxx/SC, JAM60S04-xxx/SC, JAM60S06-xxx/SC, JAM6(K)(FA)-60-xxx/4BB, xxx= 265 to 290 in step of 5;	265 W, 270 W, 275 W, 280 W, 285 W, 290 W;
JAM6(K)(SE)-60-xxx/PR, JAM6(K)(BK)(SE)-60-xxx/PR, JAM6(K)(TG)-60-xxx/PR, JAM6(K)(BK)(TG)-60-xxx/PR, JAM60S05-xxx/PR, JAM60S07-xxx/PR, JAM60S04-xxx/PR, JAM60S06-xxx/PR, xxx= 275 to 300 in step of 5;	275 W, 280 W, 285 W, 290 W, 295 W, 300 W;
JAM6(L)(SE)-72-xxx/PR, JAM6(L)(BK)(SE)-72-xxx/PR, JAM6(K)(SE)-72-xxx/PR, JAM6(K)(BK)(SE)-72-xxx/PR, JAM72S05-xxx/PR, JAM72S07-xxx/PR, xxx= 325 to 330 in step of 5;	325 W, 330 W;
JAM6(K)(SE)-72-xxx/4BB, JAM72S05-xxx/SC, xxx= 320 to 330 in step of 5;	320 W, 325 W, 330 W;

Maximum System Voltage: 1500 V DC	
Model	Rated Output Power at STC
JAM6-72-xxx/SI/1500V, xxx =285 to 325 in step of 5;	285 W, 290 W, 295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325 W;
JAM6-60-xxx/SI/1500V, xxx =235 to 280 in step of 5;	235 W, 240 W, 245 W, 250 W, 255 W, 260 W, 265 W, 270 W, 275 W, 280 W;
JAM6(R)-72-xxx/1500V, xxx =295 to 340 in step of 5;	295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325 W, 330 W, 335 W, 340 W;
JAM6(R)-60-xxx/1500V, JAM6-60-xxx/4BB/1500V, xxx =255 to 280 in step of 5;	255 W, 260 W, 265 W, 270 W, 275 W, 280 W;
JAM6-72-xxx/4BB/1500V, xxx =310 to 335 in step of 5;	310 W, 315 W, 320 W, 325 W, 330 W, 335 W;
JAM6(L)-72-xxx/PR/1500V, xxx =325 to 345 in step of 5;	325 W, 330 W, 335 W, 340 W, 345 W;
JAM6(L)-60-xxx/PR/1500V,	270 W, 275 W, 280 W, 285 W,

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Product Service

xxx =270 to 295 in step of 5;	290 W, 295 W;
JAM6(K)-72-xxx/PR/1500V, xxx= 335 to 360 in step of 5;	335 W, 340 W, 345 W, 350 W, 355 W, 360 W;
JAM6(K)-60-xxx/PR/1500V, xxx= 280 to 300 in step of 5;	280 W, 285 W, 290 W, 295 W, 300 W;
JAM6(K)-72-xxx/4BB/1500V, xxx =320 to 340 in step of 5;	320 W, 325 W, 330 W, 335 W, 340 W;
JAM6(K)-60-xxx/4BB /1500V, xxx =265 to 285 in step of 5;	265 W, 270 W, 275 W, 280 W, 285 W;

Maximum System Voltage: 1000 V DC or 1500 V DC	
Model	Rated Output Power at STC
JAM72S01-xxx/PR, xxx= 335 to 360 in step of 5;	325 W, 330 W, 335 W, 340 W, 345 W, 350 W, 355 W, 360 W;
JAM60S01-xxx/PR, xxx= 280 to 305 in step of 5;	275 W, 280 W, 285 W, 290 W, 295 W, 300 W, 305 W;
JAM72S01-xxx/SC, xxx =320 to 340 in step of 5;	320 W, 325 W, 330 W, 335 W, 340 W;
JAM60S01-xxx/SC, xxx =265 to 290 in step of 5;	265 W, 270 W, 275 W, 280 W, 285 W, 290 W;
JAM72S03-xxx/PR, xxx = 355 to 400 in step of 5;	355 W, 360 W, 365 W, 370 W, 375 W, 380 W, 385 W, 390 W, 395 W, 400 W;
JAM60S03-xxx/PR, xxx = 295 to 335 in step of 5;	295 W, 300 W, 305 W, 310 W, 315 W, 320 W, 325 W, 330 W, 335 W;