

## TŁUMACZENIE POŚWIADCZONE Z JĘZYKA ANGIELSKIEGO

[Wszelkie uwagi tłumacza podano kursywą w nawiasach kwadratowych. Na każdej stronie, po lewej stronie pionowo słowo: "CERTYFIKAT" w 6 językach.]

# CERTYFIKAT

[Kod QR]

[Logo:] TÜV SÜD

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Product Service

Posiadacz certyfikatu: **Shanghai JA Solar Technology Co., Ltd.**  
No. 118, Lane 3111  
West Huancheng Road  
Fengxian District  
201401 Shanghai  
PEOPLE'S REPUBLIC OF CHINA

Znak certyfikacji: [Znak, w otoku znaku treść:]  
Przebadane bezpieczeństwo  
Monitorowana produkcja  
[Symbol:] S  
IEC 61730  
Fotowoltaika  
IEC 61215  
[W środku znaku treść:] TÜV SÜD

Produkt: Naziemne moduły fotowoltaiczne (PV) z krzemu krystalicznego  
Moduł fotowoltaiczny z krzemu monokrystalicznego

Produkt został przetestowany na zasadzie dobrowolności i jest zgodny z zasadniczymi wymogami. Przedstawiony powyżej znak certyfikacji może być umieszczony na produkcie. Niedozwolone jest dokonywanie jakichkolwiek zmian w znaku certyfikacji. Ponadto posiadaczowi certyfikatu nie wolno przekazywać certyfikatu stronom trzecim. Niniejszy certyfikat jest ważny do podanej daty, o ile nie zostanie wcześniej unieważniony. Należy spełnić wszystkie obowiązujące wymagania przepisów dotyczących badań i certyfikacji TÜV SÜD Group. Szczegóły pod adresem: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

Raport z testu nr: 704061604115-79

Ważny do: 2028-08-31

Data: 2023-09-01

[Nieczytelny podpis]

( Zhulin Zhang )

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## Model(-e):

Maksymalne napięcie systemowe 1500 V DC, Moduły z podwójnym szkłem:

JAM72D00-xxx/BP/1500V, JAM72D00-xxx/BP, xxx= 330 do 385 co 5;  
JAM60D00-xxx/BP/1500V, JAM60D00-xxx/BP, xxx= 275 do 320 co 5;  
JAM60D00-xxx/PR/1500V, JAM60D00-xxx/PR, xxx= 285 do 320 co 5;  
JAM72D00-xxx/PR/1500V, JAM72D00-xxx/PR, xxx= 340 do 385 co 5;  
JAM60D00-xxx/MB/1500V, JAM60D00-xxx/MB, xxx= 310 do 315 co 5;  
JAM72D00-xxx/MB/1500V, JAM72D00-xxx/MB, xxx= 370 do 380 co 5;  
JAM72D09-xxx/BP/1500V, JAM72D09-xxx/BP, xxx= 360 do 400 co 5;  
JAM60D09-xxx/BP/1500V, JAM60D09-xxx/BP, xxx= 300 do 340 co 5;  
JAM72D10-xxx/MB/1500V, JAM72D10-xxx/MB, xxx= 385 do 430 co 5;  
JAM60D10-xxx/MB/1500V, JAM60D10-xxx/MB, xxx= 320 do 355 co 5;  
JAM72D10-xxx/BP/1500V, JAM72D10-xxx/BP, xxx= 385 do 415 co 5;  
JAM60D10-xxx/BP/1500V, JAM60D10-xxx/BP, xxx= 320 do 345 co 5;  
JAM66D10-xxx/MB/1500V, JAM66D10-xxx/MB, xxx= 360 do 380 co 5;  
JAM78D10-xxx/MB/1500V, JAM78D10-xxx/MB, xxx= 435 do 455 co 5;  
JAM72D20-xxx/MB/1500V, JAM72D20-xxx/MB, xxx= 430 do 465 co 5;  
JAM60D20-xxx/MB/1500V, JAM60D20-xxx/MB, xxx= 355 do 385 co 5;  
JAM72D10-xxx/TB/1500V, JAM72D10-xxx/TB, xxx= 400 do 420 co 5;  
JAM60D10-xxx/TB/1500V, JAM60D10-xxx/TB, xxx= 335 do 350 co 5;  
JAM78D30-xxx/MB/1500V, JAM78D30-xxx/MB, xxx= 580 do 605 co 5;  
JAM72D30-xxx/MB/1500V, JAM72D30-xxx/MB, xxx=505 do 555 co 5;  
JAM72D30-xxx/MB/F/1500V, JAM72D30-xxx/MB/F, xxx=505 do 555 co 5;  
JAM66D30-xxx/MB/1500V, JAM66D30-xxx/MB, xxx=465 do 505 co 5;  
JAM66D30-xxx/MB/F/1500V, JAM66D30-xxx/MB/F, xxx=465 do 505 co 5;  
JAM60D30-xxx/MB/1500V, JAM60D30-xxx/MB, xxx=435 do 460 co 5;  
JAM54D30-xxx/MB/1500V, JAM54D30-xxx/MB, xxx= 390 do 415 co 5;  
JAM54D31-xxx/MB/1500V, JAM54D31-xxx/MB, xxx= 395 do 400 co 5;  
JAM50D40-xxx/MB/1500V, JAM50D40-xxx/MB, xxx= 485 do 500 co 5;  
JAM78D30-xxx/GB/1500V, JAM78D30-xxx/GB, xxx= 585 do 610 co 5;  
JAM72D30-xxx/GB/1500V, JAM72D30-xxx/GB, xxx= 540 do 560 co 5;  
JAM66D30-xxx/GB/1500V, JAM66D30-xxx/GB, xxx= 495 do 510 co 5;  
JAM60D30-xxx/GB/1500V, JAM60D30-xxx/GB, xxx= 450 do 470 co 5;  
JAM54D30-xxx/GB/1500V, JAM54D30-xxx/GB, xxx= 405 do 420 co 5;  
JAM54D31-xxx/GB/1500V, JAM54D31-xxx/GB, xxx= 410 do 420 co 5;  
JAM72D30-xxx/HB/1500V, JAM72D30-xxx/HB, xxx= 530 do 560 co 5;  
JAM78D40-xxx/MB/1500V, JAM78D40-xxx/MB, xxx= 580 do 630 co 5;  
JAM72D40-xxx/MB/1500V, JAM72D40-xxx/MB, xxx= 540 do 585 co 5;  
JAM66D40-xxx/MB/1500V, JAM66D40-xxx/MB, xxx= 500 do 535 co 5;  
JAM60D40-xxx/MB/1500V, JAM60D40-xxx/MB, xxx= 455 do 485 co 5;  
JAM54D40-xxx/MB/1500V, JAM54D40-xxx/MB, xxx= 405 do 440 co 5;  
JAM78D40-xxx/GB/1500V, JAM78D40-xxx/GB, xxx= 580 do 635 co 5;  
JAM72D40-xxx/GB/1500V, JAM72D40-xxx/GB, xxx= 540 do 585 co 5;  
JAM66D40-xxx/GB/1500V, JAM66D40-xxx/GB, xxx= 500 do 535 co 5;  
JAM60D40-xxx/GB/1500V, JAM60D40-xxx/GB, xxx= 455 do 485 co 5;  
JAM54D40-xxx/GB/1500V, JAM54D40-xxx/GB, xxx= 405 do 440 co 5;  
JAM54D41-xxx/GB/1500V, JAM54D41-xxx/GB, xxx= 415 do 435 co 5;  
JAM66D35-xxx/MB/1500V, JAM66D35-xxx/MB, xxx= 650 do 665 co 5;  
JAM60D35-xxx/MB/1500V, JAM60D35-xxx/MB, xxx= 590 do 605 co 5;  
JAM72D30-xxx /TB/1500V, JAM72D30-xxx /TB, xxx= 540 do 580 co 5;  
JAM72D40-xxx/LB/1500V, JAM72D40-xxx/LB, xxx= 575 do 600 co 5;  
JAM54D40-xxx/LB/1500V, JAM54D40-xxx/LB, xxx= 420 do 450 co 5;  
JAM54D41-xxx/LB/1500V, JAM54D41-xxx/LB, xxx= 420 do 440 co 5;  
JAM72D42-xxx/LB/1500V, JAM72D42-xxx/LB, xxx= 605 do 630 co 5;  
JAM54D42-xxx/LB/1500V, JAM54D42-xxx/LB, xxx= 455 do 470 co 5;  
JAM66D42-xxx/MB/1500V, JAM66D42-xxx/MB, xxx= 555 do 575 co 5;  
JAM72D30-xxx/LB/1500V, JAM72D30-xxx/LB, xxx= 555 do 575 co 5;  
JAM54D30-xxx/LB/1500V, JAM54D30-xxx/LB, xxx= 420 do 430 co 5;  
JAM66D45-xxx/LB/1500V, JAM66D45-xxx/LB, xxx= 585 do 605 co 5;

Maksymalne napięcie systemowe 1000 V DC, Moduły z pojedynczym szkłem:

JAM6(K)-72-xxx/PR, xxx= 345 do 370 co 5;  
JAM6(K)-60-xxx/PR, xxx= 285 do 310 co 5;  
JAM6(K)-72-xxx/4BB, xxx= 320 do 345 co 5;  
JAM6(K)-60-xxx/4BB, xxx= 265 do 285 co 5;  
JAM72S01 -xxx/SC/1000V, xxx= 320 do 365 co 5;  
JAM60S01 -xxx/SC/1000V, xxx= 265 do 305 co 5;  
JAM72S01 -xxx/PR/1000V, xxx= 345 do 390 co 5;  
JAM60S01 -xxx/PR/1000V, xxx= 285 do 325 co 5;

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JAM72S01-xxx/MR/1000V, xxx= 365 do 385 co 5;  
JAM60S01-xxx/MR/1000V, xxx= 305 do 320 co 5;  
JAM72S03-xxx/PR/1000V, xxx= 360 do 395 co 5;  
JAM60S03-xxx/PR/1000V, xxx= 300 do 330 co 5;  
JAM72S09-xxx/PR/1000V, xxx= 370 do 405 co 5;  
JAM60S09-xxx/PR/1000V, xxx= 310 do 335 co 5;  
JAM72S10-xxx/PR/1000V, xxx= 380 do 410 co 5;  
JAM60S10-xxx/PR/1000V, xxx= 315 do 345 co 5;  
JAM72S10-xxx/MR/1000V, xxx= 390 do 430 co 5;  
JAM60S10-xxx/MR/1000V, xxx= 325 do 355 co 5;  
JAM60S10-xxx/MR-L/1000V, xxx= 325 do 355 co 5;  
JAM78S10-xxx/MR/1000V, xxx= 435 do 465 co 5;  
JAM66S10-xxx/MR/1000V, xxx= 345 do 390 co 5;  
JAM72S09-xxx/BP/1000V, xxx= 375 do 385 co 5;  
JAM60S09-xxx/BP/1000V, xxx= 315 do 320 co 5;  
JAM72S10-xxx/BP/1000V, xxx= 385 do 400 co 5;  
JAM60S10-xxx/BP/1000V, xxx= 320 do 330 co 5.  
JAM72S02-xxx/PR/1000V, xxx= 345 do 390 co 5;  
JAM60S02-xxx/PR/1000V, xxx= 285 do 325 co 5;  
JAM72S02-xxx/SC/1000V, xxx= 320 do 365 co 5;  
JAM60S02-xxx/SC/1000V, xxx= 265 do 305 co 5;  
JAM72S02-xxx/MR/1000V, xxx= 365 do 385 co 5;  
JAM60S02-xxx/MR/1000V, xxx= 305 do 320 co 5;  
JAM72S08-xxx/PR/1000V, xxx= 360 do 395 co 5;  
JAM60S08-xxx/PR/1000V, xxx= 300 do 330 co 5;  
JAM72S12-xxx/PR/1000V, xxx= 365 do 385 co 5;  
JAM60S12-xxx/PR/1000V, xxx= 305 do 330 co 5;  
JAM72S17-xxx/PR/1000V, xxx= 380 do 390 co 5;  
JAM60S17-xxx/PR/1000V, xxx= 315 do 325 co 5;  
JAM72S17-xxx/MR/1000V, xxx= 390 do 430 co 5;  
JAM60S17-xxx/MR/1000V, xxx= 315 do 355 co 5;  
JAM72S10-xxx/MB/1000V, xxx= 395 do 415 co 5;  
JAM60S10-xxx/MB/1000V, xxx= 330 do 345 co 5;  
JAM72S20-xxx/MR/1000V, xxx= 430 do 470 co 5;  
JAM60S20-xxx/MR/1000V, xxx= 355 do 390 co 5;  
JAM78S30-xxx/MR/1000V, xxx= 580 do 605 co 5;  
JAM72S30-xxx/MR/1000V, xxx=510 do 555 co 5;  
JAM66S30-xxx/MR/1000V, xxx=470 do 505 co 5;  
JAM60S30-xxx/MR/1000V, xxx=435 do 460 co 5;  
JAM54S30-xxx/MR/1000V, xxx= 390 do 425 co 5;  
JAM54S30-xxx/MB/1000V, xxx= 385 do 410 co 5;  
JAM54S31 -xxx/MB/1000V, xxx= 385 do 405 co 5;  
JAM60S21-xxx/MR/1000V, xxx= 355 do 390 co 5;  
JAM50S40-xxx/MR/1000V, xxx= 490 do 500 co 5;  
JAM72S20-xxx/MB/1000V, xxx= 450 do 465 co 5;  
JAM60S20-xxx/MB/1000V, xxx= 375 do 390 co 5;  
JAM72S31-xxx/MR/1000V, xxx= 510 do 545 co 5;  
JAM66S31-xxx/MR/1000V, xxx= 470 do 500 co 5;  
JAM60S31 -xxx/MR/1000V, xxx= 425 do 450 co 5;  
JAM54S31 -xxx/MR/1000V, xxx= 385 do 405 co 5;  
JAM76S11 -xxx/PR(B)/1000V, xxx= 395 do 415 co 5;  
JAM78S30-xxx/GR/1000V, xxx= 575 do 610 co 5;  
JAM72S30-xxx/GR/1000V, xxx= 535 do 560 co 5;  
JAM66S30-xxx/GR/1000V, xxx= 500 do 510 co 5;  
JAM60S30-xxx/GR/1000V, xxx= 445 do 470 co 5;  
JAM54S30-xxx/GR/1000V, xxx= 400 do 420 co 5;  
JAM78S31-xxx/GR/1000V, xxx= 570 do 590 co 5;  
JAM72S31-xxx/GR/1000V, xxx= 525 do 545 co 5;  
JAM66S31-xxx/GR/1000V, xxx= 480 do 500 co 5;  
JAM60S31-xxx/GR/1000V, xxx= 430 do 450 co 5;  
JAM54S31-xxx/GR/1000V, xxx= 395 do 415 co 5;  
JAM72S17-xxx/GR/1000V, xxx= 385 do 400 co 5;  
JAM72S40-xxx/GR/1000V, xxx= 540 do 575 co 5;  
JAM66S40-xxx/GR/1000V, xxx= 495 do 525 co 5;  
JAM60S40-xxx/GR/1000V, xxx= 450 do 480 co 5;  
JAM54S40-xxx/GR/1000V, xxx= 405 do 430 co 5;  
JAM72S41-xxx/GR/1000V, xxx= 540 do 570 co 5;  
JAM66S41-xxx/GR/1000V, xxx= 495 do 525 co 5;  
JAM60S41-xxx/GR/1000V, xxx= 450 do 475 co 5;  
JAM54S41 -xxx/GR/1000V, xxx= 405 do 430 co 5;

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JAM66S35-xxx/MR/1000V, xxx= 650 do 670 co 5;  
JAM60S35-xxx/MR/1000V, xxx= 590 do 610 co 5;  
JAM72S30-xxx/LR/1000V, xxx= 555 do 580 co 5;  
JAM54S30-xxx/LR/1000V, xxx= 415 do 435 co 5;  
JAM54S31-xxx/LR/1000V, xxx= 415 do 420 co 5;  
JAM54S30-xxx/LB/1000V, xxx= 410 do 425 co 5;  
JAM54S31-xxx/LB/1000V, xxx= 410 do 415 co 5;

Maksymalne napięcie systemowe 1000 V DC lub 1500 V DC,  
Moduły z pojedynczym szkłem:

JAM72S01-xxx/SC, xxx= 320 do 365 co 5;  
JAM60S01-xxx/SC, xxx= 265 do 305 co 5;  
JAM60S01-xxx/PR, xxx= 285 do 325 co 5;  
JAM72S01-xxx/MR, xxx= 365 do 385 co 5;  
JAM60S01-xxx/MR, xxx= 305 do 320 co 5;  
JAM72S03-xxx/PR, xxx= 360 do 395 co 5;  
JAM60S03-xxx/PR, xxx= 300 do 330 co 5;  
JAM72S09-xxx/PR, xxx= 370 do 405 co 5;  
JAM60S09-xxx/PR, xxx= 310 do 335 co 5;  
JAM72S10-xxx/PR, xxx= 380 do 410 co 5;  
JAM60S10-xxx/PR, xxx= 315 do 345 co 5;  
JAM72S10-xxx/MR, xxx= 390 do 430 co 5;  
JAM60S10-xxx/MR, xxx= 325 do 355 co 5;  
JAM60S10-xxx/MR-L, xxx= 325 do 355 co 5;  
JAM78S10-xxx/MR, xxx= 435 do 465 co 5;  
JAM66S10-xxx/MR, xxx= 345 do 390 co 5;  
JAM72S09-xxx/BP, xxx= 375 do 385 co 5;  
JAM60S09-xxx/BP, xxx= 315 do 320 co 5;  
JAM72S10-xxx/BP, xxx= 385 do 400 co 5;  
JAM60S10-xxx/BP, xxx= 320 do 330 co 5;  
JAM72S02-xxx/PR, xxx= 345 do 390 co 5;  
JAM60S02-xxx/PR, xxx= 285 do 325 co 5;  
JAM72S02-xxx/SC, xxx= 320 do 365 co 5;  
JAM60S02-xxx/SC, xxx= 265 do 305 co 5;  
JAM72S02-xxx/MR, xxx= 365 do 385 co 5;  
JAM60S02-xxx/MR, xxx= 305 do 320 co 5;  
JAM72S08-xxx/PR, xxx= 360 do 395 co 5;  
JAM60S08-xxx/PR, xxx= 300 do 330 co 5;  
JAM72S12-xxx/PR, xxx= 365 do 385 co 5;  
JAM60S12-xxx/PR, xxx= 305 do 330 co 5;  
JAM72S17-xxx/PR, xxx= 380 do 390 co 5;  
JAM60S17-xxx/PR, xxx= 315 do 325 co 5;  
JAM72S17-xxx/MR, xxx= 390 do 430 co 5;  
JAM60S17-xxx/MR, xxx= 315 do 355 co 5;  
JAM72S10-xxx/MB, xxx= 395 do 415 co 5;  
JAM60S10-xxx/MB, xxx= 330 do 345 co 5;  
JAM72S20-xxx/MR, xxx= 430 do 470 co 5;  
JAM60S20-xxx/MR, xxx= 355 do 390 co 5;  
JAM78S10-xxx/MR-J, xxx= 435 do 465 co 5;  
JAM78S30-xxx/MR, xxx= 580 do 605 co 5;  
JAM72S30-xxx/MR, xxx= 510 do 555 co 5;  
JAM66S30-xxx/MR, xxx= 470 do 505 co 5;  
JAM60S30-xxx/MR, xxx= 435 do 460 co 5;  
JAM54S30-xxx/MR, xxx= 390 do 425 co 5;  
JAM54S30-xxx/MB, xxx= 385 do 410 co 5;  
JAM54S31-xxx/MB, xxx= 385 do 405 co 5;  
JAM60S21-xxx/MR, xxx= 355 do 390 co 5;  
JAM50S40-xxx/MR, xxx= 490 do 500 co 5;  
JAM72S20-xxx/MB, xxx= 450 do 465 co 5;  
JAM60S20-xxx/MB, xxx= 375 do 390 co 5;  
JAM68S11-xxx/PR, xxx= 355 do 365 co 5;  
JAM68S11-xxx/PR(B), xxx= 345 do 365 co 5;  
JAM72S31-xxx/MR, xxx= 510 do 545 co 5;  
JAM66S31-xxx/MR, xxx= 470 do 500 co 5;  
JAM60S31-xxx/MR, xxx= 425 do 450 co 5;  
JAM54S31-xxx/MR, xxx= 385 do 405 co 5;  
JAM76S11-xxx/PR(B), xxx= 395 do 415 co 5;  
JAM78S30-xxx/GR, xxx= 575 do 610 co 5;  
JAM72S30-xxx/GR, xxx= 535 do 560 co 5;  
JAM66S30-xxx/GR, xxx= 500 do 510 co 5;

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JAM60S30-xxx/GR, xxx= 445 do 470 co 5;  
JAM54S30-xxx/GR, xxx= 400 do 420 co 5;  
JAM78S31-xxx/GR, xxx= 570 do 590 co 5;  
JAM72S31-xxx/GR, xxx= 525 do 545 co 5;  
JAM66S31-xxx/GR, xxx= 480 do 500 co 5;  
JAM60S31-xxx/GR, xxx= 435 do 450 co 5;  
JAM54S31-xxx/GR, xxx= 395 do 415 co 5;  
JAM72S17-xxx/GR, xxx= 385 do 400 co 5;  
JAM72S40-xxx/GR, xxx= 540 do 575 co 5;  
JAM66S40-xxx/GR, xxx= 495 do 525 co 5;  
JAM60S40-xxx/GR, xxx= 450 do 480 co 5;  
JAM54S40-xxx/GR, xxx= 405 do 430 co 5;  
JAM72S41-xxx/GR, xxx= 540 do 570 co 5;  
JAM66S41-xxx/GR, xxx= 495 do 525 co 5;  
JAM60S41-xxx/GR, xxx= 450 do 475 co 5;  
JAM54S41-xxx/GR, xxx= 405 do 430 co 5;  
JAM66S35-xxx/MR, xxx= 650 do 670 co 5;  
JAM60S35-xxx/MR, xxx= 590 do 610 co 5;  
JAM72S30-xxx/LR, xxx= 555 do 580 co 5;  
JAM54S30-xxx/LR, xxx= 415 do 435 co 5;  
JAM54S31-xxx/LR, xxx= 415 do 420 co 5;  
JAM54S30-xxx/LB, xxx= 410 do 425 co 5;  
JAM54S31-xxx/LB, xxx= 410 do 415 co 5;

Maksymalne napięcie systemowe 1500 V DC, Moduły z pojedynczym szkielem:

JAM6(K)-72-xxx/PR/1500V, xxx= 345 do 370 co 5;  
JAM6(K)-60-xxx/PR/1500V, xxx= 285 do 310 co 5;  
JAM6(K)-72-xxx/4BB/1500V, xxx= 320 do 345 co 5;  
JAM6(K)-60-xxx/4BB/1500V, xxx= 265 do 285 co 5;  
JAM72S01-xxx/SC/1500V, xxx= 320 do 365 co 5;  
JAM60S01-xxx/SC/1500V, xxx= 265 do 305 co 5;  
JAM72S01-xxx/PR, xxx= 345 do 390 co 5;  
JAM60S01-xxx/PR/1500V, xxx= 285 do 325 co 5;  
JAM72S01-xxx/MR/1500V, xxx= 365 do 385 co 5;  
JAM60S01-xxx/MR/1500V, xxx= 305 do 320 co 5;  
JAM72S03-xxx/PR/1500V, xxx= 360 do 395 co 5;  
JAM60S03-xxx/PR/1500V, xxx= 300 do 330 co 5;  
JAM72S09-xxx/PR/1500V, xxx= 370 do 405 co 5;  
JAM60S09-xxx/PR/1500V, xxx= 310 do 335 co 5;  
JAM72S10-xxx/PR/1500V, xxx= 380 do 410 co 5;  
JAM60S10-xxx/PR/1500V, xxx= 315 do 345 co 5;  
JAM72S10-xxx/MR/1500V, xxx= 390 do 430 co 5;  
JAM60S10-xxx/MR/1500V, xxx= 325 do 355 co 5;  
JAM60S10-xxx/MR-L/1500V, xxx= 325 do 355 co 5;  
JAM78S10-xxx/MR/1500V, xxx= 435 do 465 co 5;  
JAM66S10-xxx/MR/1500V, xxx= 345 do 390 co 5;  
JAM72S09-xxx/BP/1500V, xxx= 375 do 385 co 5;  
JAM60S09-xxx/BP/1500V, xxx= 315 do 320 co 5;  
JAM72S10-xxx/BP/1500V, xxx= 385 do 400 co 5;  
JAM60S10-xxx/BP/1500V, xxx= 320 do 330 co 5;  
JAM72S02-xxx/PR/1500V, xxx= 345 do 390 co 5;  
JAM60S02-xxx/PR/1500V, xxx= 285 do 325 co 5;  
JAM72S02-xxx/SC/1500V, xxx= 320 do 365 co 5;  
JAM60S02-xxx/SC/1500V, xxx= 265 do 305 co 5;  
JAM72S02-xxx/MR/1500V, xxx= 365 do 385 co 5;  
JAM60S02-xxx/MR/1500V, xxx= 305 do 320 co 5;  
JAM72S08-xxx/PR/1500V, xxx= 360 do 395 co 5;  
JAM60S08-xxx/PR/1500V, xxx= 300 do 330 co 5;  
JAM72S12-xxx/PR/1500V, xxx= 365 do 385 co 5;  
JAM60S12-xxx/PR/1500V, xxx= 305 do 330 co 5;  
JAM72S17-xxx/PR/1500V, xxx= 380 do 390 co 5;  
JAM60S17-xxx/PR/1500V, xxx= 315 do 325 co 5;  
JAM72S17-xxx/MR/1500V, xxx= 390 do 430 co 5;  
JAM60S17-xxx/MR/1500V, xxx= 315 do 355 co 5;  
JAM72S10-xxx/MB/1500V, xxx= 395 do 415 co 5;  
JAM60S10-xxx/MB/1500V, xxx= 330 do 345 co 5;  
JAM72S20-xxx/MR/1500V, xxx= 430 do 470 co 5;  
JAM60S20-xxx/MR/1500V, xxx= 355 do 390 co 5;  
JAM78S30-xxx/MR/1500V, xxx= 580 do 605 co 5;  
JAM72S30-xxx/MR/1500V, xxx=510 do 555 co 5;

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[Logo:] TÜV SÜD  
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JAM66S30-xxx/MR/1500V, xxx=470 do 505 co 5;  
JAM60S30-xxx/MR/1500V, xxx=435 do 460 co 5;  
JAM54S30-xxx/MR/1500V, xxx= 390 do 425 co 5;  
JAM54S30-xxx/MB/1500V, xxx= 385 do 410 co 5;  
JAM54S31 -xxx/MB/1500V, xxx= 385 do 405 co 5;  
JAM60S21-xxx/MR/1500V, xxx= 355 do 390 co 5;  
JAM50S40-xxx/MR/1500V, xxx= 490 do 500 co 5;  
JAM72S20-xxx/MB/1500V, xxx= 450 do 465 co 5;  
JAM60S20-xxx/MB/1500V, xxx= 375 do 390 co 5;  
JAM72S31-xxx/MR/1500V, xxx= 510 do 545 co 5;  
JAM66S31-xxx/MR/1500V, xxx= 470 do 500 co 5;  
JAM60S31 -xxx/MR/1500V, xxx= 425 do 450 co 5;  
JAM54S31 -xxx/MR/1500V, xxx= 385 do 405 co 5;  
JAM76S11 -xxx/PR(B)/1500V, xxx= 395 do 415 co 5;  
JAM78S30-xxx/GR/1500V, xxx= 575 do 610 co 5;  
JAM72S30-xxx/GR/1500V, xxx= 535 do 560 co 5;  
JAM66S30-xxx/GR/1500V, xxx= 500 do 510 co 5;  
JAM60S30-xxx/GR/1500V, xxx= 445 do 470 co 5;  
JAM54S30-xxx/GR/1500V, xxx= 400 do 420 co 5;  
JAM78S31-xxx/GR/1500V, xxx= 570 do 590 co 5;  
JAM72S31-xxx/GR/1500V, xxx= 525 do 545 co 5;  
JAM66S31-xxx/GR/1500V, xxx= 480 do 500 co 5;  
JAM60S31-xxx/GR/1500V, xxx= 435 do 450 co 5;  
JAM54S31-xxx/GR/1500V, xxx= 395 do 415 co 5;  
JAM72S17-xxx/GR/1500V, xxx= 385 do 400 co 5;  
JAM72S40-xxx/GR/1500V, xxx= 540 do 575 co 5;  
JAM66S40-xxx/GR/1500V, xxx= 495 do 525 co 5;  
JAM60S40-xxx/GR/1500V, xxx= 450 do 480 co 5;  
JAM54S40-xxx/GR/1500V, xxx= 405 do 430 co 5;  
JAM72S41-xxx/GR/1500V, xxx= 540 do 570 co 5;  
JAM66S41-xxx/GR/1500V, xxx= 495 do 525 co 5;  
JAM60S41-xxx/GR/1500V, xxx= 450 do 475 co 5;  
JAM54S41 -xxx/GR/1500V, xxx= 405 do 430 co 5;  
JAM66S35-xxx/MR/1500V, xxx= 650 do 670 co 5;  
JAM60S35-xxx/MR/1500V, xxx= 590 do 610 co 5;  
JAM72S30-xxx/LR/1500V, xxx= 555 do 580 co 5;  
JAM54S30-xxx/LR/1500V, xxx= 415 do 435 co 5;  
JAM54S31-xxx/LR/1500V, xxx= 415 do 420 co 5;  
JAM54S30-xxx/LB/1500V, xxx= 410 do 425 co 5;  
JAM54S31-xxx/LB/1500V, xxx= 410 do 415 co 5;  
xxx oznaczają znamionową moc wyjściową przy STC

## Parametry:

Konstrukcja:	Ramowa lub bezramowa ze skrzynką przyłączeniową, kablem i złączem.
Laboratorium testowe:	Yangzhou Opto-Electrical Products Testing Institute No. 10 West Kaifa Road, Yangzhou 225009 Jiangsu, P. R. China
Klasa bezpieczeństwa:	Klasa II
Maksymalne napięcie systemowe:	1500 V DC lub 1000 V DC
Klasa odporności ogniowej:	Klasa C zgodnie z normą UL790.
Zakład(-y) produkcyjny(-e):	079395, 095903, 090968, 108746, 072092, 109998, 112017, 113943, 114922, 001783, 004170, 113691, 117043, 119123, 120210, 117684, 114994, 120736, 115500, 120016, 108093, 121678.

## Testowane zgodnie z:

IEC 61215-1:2016  
IEC 61215-1-1:2016  
IEC 61215-2:2016  
IEC 61730-1:2016  
IEC 61730-2:2016  
EN IEC 61730-1:2018  
EN IEC 61730-1:2018/AC:2018-06  
EN IEC 61730-2:2018  
EN IEC 61730-2:2018/AC:2018-06

TÜV®

Niniejszym poświadczam zgodność powyższego tłumaczenia z dokumentem elektronicznym w języku angielskim.

Aleksandra Bacz, tłumacz przysięgły języka angielskiego, wpisany na listę tłumaczy przysięgłych, prowadzoną przez ministra sprawiedliwości, pod numerem TP/2/18.

Numer w repertorium: 1102/2023

Gliwice, 30.11.2023 r.



Product Service

# CERTIFICATE

No. Z2 072092 0295 Rev. 64

**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

**Certification Mark:**



**Product:** **Crystalline Silicon Terrestrial Photovoltaic (PV) Modules**  
**Mono-Crystalline Silicon Photovoltaic Module**

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. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 704061604115-79

**Valid until:** 2028-08-31

**Date,** 2023-09-01

( Zhulin Zhang )



# CERTIFICATE

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## Model(s):

1500 V DC Maximum System Voltage, Double Glass Modules:  
 JAM72D00-xxx/BP/1500V, JAM72D00-xxx/BP, xxx= 330 to 385 in steps of 5;  
 JAM60D00-xxx/BP/1500V, JAM60D00-xxx/BP, xxx= 275 to 320 in steps of 5;  
 JAM60D00-xxx/PR/1500V, JAM60D00-xxx/PR, xxx= 285 to 320 in steps of 5;  
 JAM72D00-xxx/PR/1500V, JAM72D00-xxx/PR, xxx= 340 to 385 in steps of 5;  
 JAM60D00-xxx/MB/1500V, JAM60D00-xxx/MB, xxx= 310 to 315 in steps of 5;  
 JAM72D00-xxx/MB/1500V, JAM72D00-xxx/MB, xxx= 370 to 380 in steps of 5;  
 JAM72D09-xxx/BP/1500V, JAM72D09-xxx/BP, xxx= 360 to 400 in steps of 5;  
 JAM60D09-xxx/BP/1500V, JAM60D09-xxx/BP, xxx= 300 to 345 in steps of 5;  
 JAM72D10-xxx/MB/1500V, JAM72D10-xxx/MB, xxx= 385 to 430 in steps of 5;  
 JAM60D10-xxx/MB/1500V, JAM60D10-xxx/MB, xxx= 320 to 355 in steps of 5;  
 JAM72D10-xxx/BP/1500V, JAM72D10-xxx/BP, xxx= 385 to 415 in steps of 5;  
 JAM60D10-xxx/BP/1500V, JAM60D10-xxx/BP, xxx= 320 to 345 in steps of 5;  
 JAM66D10-xxx/MB/1500V, JAM66D10-xxx/MB, xxx= 360 to 380 in steps of 5;  
 JAM78D10-xxx/MB/1500V, JAM78D10-xxx/MB, xxx= 435 to 455 in steps of 5;  
 JAM72D20-xxx/MB/1500V, JAM72D20-xxx/MB, xxx= 430 to 465 in steps of 5;  
 JAM60D20-xxx/MB/1500V, JAM60D20-xxx/MB, xxx= 355 to 385 in steps of 5;  
 JAM72D10-xxx/TB/1500V, JAM72D10-xxx/TB, xxx= 400 to 420 in steps of 5;  
 JAM60D10-xxx/TB/1500V, JAM60D10-xxx/TB, xxx= 335 to 350 in steps of 5;  
 JAM78D30-xxx/MB/1500V, JAM78D30-xxx/MB, xxx= 580 to 605 in steps of 5;  
 JAM72D30-xxx/MB/1500V, JAM72D30-xxx/MB, xxx=505 to 555 in steps of 5;  
 JAM72D30-xxx/MB/F/1500V, JAM72D30-xxx/MB/F,  
 xxx=505 to 555 in steps of 5;  
 JAM66D30-xxx/MB/1500V, JAM66D30-xxx/MB, xxx=465 to 505 in steps of 5;  
 JAM66D30-xxx/MB/F/1500V, JAM66D30-xxx/MB/F,  
 xxx=465 to 505 in steps of 5;  
 JAM60D30-xxx/MB/1500V, JAM60D30-xxx/MB, xxx=435 to 460 in steps of 5;  
 JAM54D30-xxx/MB/1500V, JAM54D30-xxx/MB, xxx= 390 to 415 in steps of 5;  
 JAM54D31-xxx/MB/1500V, JAM54D31-xxx/MB, xxx= 395 to 400 in steps of 5;  
 JAM50D40-xxx/MB/1500V, JAM50D40-xxx/MB, xxx= 485 to 500 in steps of 5;  
 JAM78D30-xxx/GB/1500V, JAM78D30-xxx/GB, xxx= 585 to 610 in steps of 5;  
 JAM72D30-xxx/GB/1500V, JAM72D30-xxx/GB, xxx= 540 to 560 in steps of 5;  
 JAM66D30-xxx/GB/1500V, JAM66D30-xxx/GB, xxx= 495 to 510 in steps of 5;  
 JAM60D30-xxx/GB/1500V, JAM60D30-xxx/GB, xxx= 450 to 470 in steps of 5;  
 JAM54D30-xxx/GB/1500V, JAM54D30-xxx/GB, xxx= 405 to 420 in steps of 5;  
 JAM54D31-xxx/GB/1500V, JAM54D31-xxx/GB, xxx= 410 to 420 in steps of 5;  
 JAM72D30-xxx/HB/1500V, JAM72D30-xxx/HB, xxx= 530 to 560 in steps of 5;  
 JAM78D40-xxx/MB/1500V, JAM78D40-xxx/MB, xxx= 580 to 630 in steps of 5;  
 JAM72D40-xxx/MB/1500V, JAM72D40-xxx/MB, xxx= 540 to 585 in steps of 5;  
 JAM66D40-xxx/MB/1500V, JAM66D40-xxx/MB, xxx= 500 to 535 in steps of 5;  
 JAM60D40-xxx/MB/1500V, JAM60D40-xxx/MB, xxx= 455 to 485 in steps of 5;  
 JAM54D40-xxx/MB/1500V, JAM54D40-xxx/MB, xxx= 405 to 440 in steps of 5;  
 JAM78D40-xxx/GB/1500V, JAM78D40-xxx/GB, xxx= 580 to 635 in steps of 5;  
 JAM72D40-xxx/GB/1500V, JAM72D40-xxx/GB, xxx= 540 to 585 in steps of 5;  
 JAM66D40-xxx/GB/1500V, JAM66D40-xxx/GB, xxx= 500 to 535 in steps of 5;  
 JAM60D40-xxx/GB/1500V, JAM60D40-xxx/GB, xxx= 455 to 485 in steps of 5;  
 JAM54D40-xxx/GB/1500V, JAM54D40-xxx/GB, xxx= 405 to 440 in steps of 5;  
 JAM54D41-xxx/GB/1500V, JAM54D41-xxx/GB, xxx= 415 to 435 in steps of 5;  
 JAM66D35-xxx/MB/1500V, JAM66D35-xxx/MB, xxx= 650 to 665 in steps of 5;  
 JAM60D35-xxx/MB/1500V, JAM60D35-xxx/MB, xxx= 590 to 605 in steps of 5;  
 JAM72D30-xxx /TB/1500V, JAM72D30-xxx /TB, xxx= 540 to 580 in steps of 5;  
 JAM72D40-xxx/LB/1500V, JAM72D40-xxx/LB, xxx= 575 to 600 in steps of 5;  
 JAM54D40-xxx/LB/1500V, JAM54D40-xxx/LB, xxx= 420 to 450 in steps of 5;  
 JAM54D41-xxx/LB/1500V, JAM54D41-xxx/LB, xxx= 420 to 440 in steps of 5;  
 JAM72D42-xxx/LB/1500V, JAM72D42-xxx/LB, xxx= 605 to 630 in steps of 5;  
 JAM54D42-xxx/LB/1500V, JAM54D42-xxx/LB, xxx= 455 to 470 in steps of 5;  
 JAM66D42-xxx/MB/1500V, JAM66D42-xxx/MB, xxx= 555 to 575 in steps of 5;  
 JAM72D30-xxx/LB/1500V, JAM72D30-xxx/LB, xxx= 555 to 575 in steps of 5;  
 JAM54D30-xxx/LB/1500V, JAM54D30-xxx/LB, xxx= 420 to 430 in steps of 5;  
 JAM66D45-xxx/LB/1500V, JAM66D45-xxx/LB, xxx= 585 to 605 in steps of 5;

1000 V DC Maximum System Voltage, Single Glass Modules:  
 JAM6(K)-72-xxx/PR, xxx= 345 to 370 in steps of 5;  
 JAM6(K)-60-xxx/PR, xxx= 285 to 310 in steps of 5;  
 JAM6(K)-72-xxx/4BB, xxx= 320 to 345 in steps of 5;  
 JAM6(K)-60-xxx/4BB, xxx= 265 to 285 in steps of 5;  
 JAM72S01-xxx/SC/1000V, xxx= 320 to 365 in steps of 5;  
 JAM60S01-xxx/SC/1000V, xxx= 265 to 305 in steps of 5;  
 JAM72S01-xxx/PR/1000V, xxx= 345 to 390 in steps of 5;  
 JAM60S01-xxx/PR/1000V, xxx= 285 to 325 in steps of 5;

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JAM72S01-xxx/MR/1000V, xxx= 365 to 385 in steps of 5;  
JAM60S01-xxx/MR/1000V, xxx= 305 to 320 in steps of 5;  
JAM72S03-xxx/PR/1000V, xxx= 360 to 395 in steps of 5;  
JAM60S03-xxx/PR/1000V, xxx= 300 to 330 in steps of 5;  
JAM72S09-xxx/PR/1000V, xxx= 370 to 405 in steps of 5;  
JAM60S09-xxx/PR/1000V, xxx= 310 to 335 in steps of 5;  
JAM72S10-xxx/PR/1000V, xxx= 380 to 410 in steps of 5;  
JAM60S10-xxx/PR/1000V, xxx= 315 to 345 in steps of 5;  
JAM72S10-xxx/MR/1000V, xxx= 390 to 430 in steps of 5;  
JAM60S10-xxx/MR/1000V, xxx= 325 to 355 in steps of 5;  
JAM60S10-xxx/MR-L/1000V, xxx= 325 to 355 in steps of 5;  
JAM78S10-xxx/MR/1000V, xxx= 435 to 465 in steps of 5;  
JAM66S10-xxx/MR/1000V, xxx= 345 to 390 in steps of 5;  
JAM72S09-xxx/BP/1000V, xxx= 375 to 385 in steps of 5;  
JAM60S09-xxx/BP/1000V, xxx= 315 to 320 in steps of 5;  
JAM72S10-xxx/BP/1000V, xxx= 385 to 400 in steps of 5;  
JAM60S10-xxx/BP/1000V, xxx= 320 to 330 in steps of 5;  
JAM72S02-xxx/PR/1000V, xxx= 345 to 390 in steps of 5;  
JAM60S02-xxx/PR/1000V, xxx= 285 to 325 in steps of 5;  
JAM72S02-xxx/SC/1000V, xxx= 320 to 365 in steps of 5;  
JAM60S02-xxx/SC/1000V, xxx= 265 to 305 in steps of 5;  
JAM72S02-xxx/MR/1000V, xxx= 365 to 385 in steps of 5;  
JAM60S02-xxx/MR/1000V, xxx= 305 to 320 in steps of 5;  
JAM72S08-xxx/PR/1000V, xxx= 360 to 395 in steps of 5;  
JAM60S08-xxx/PR/1000V, xxx= 300 to 330 in steps of 5;  
JAM72S12-xxx/PR/1000V, xxx= 365 to 385 in steps of 5;  
JAM60S12-xxx/PR/1000V, xxx= 305 to 330 in steps of 5;  
JAM72S17-xxx/PR/1000V, xxx= 380 to 390 in steps of 5;  
JAM60S17-xxx/PR/1000V, xxx= 315 to 325 in steps of 5;  
JAM72S17-xxx/MR/1000V, xxx= 390 to 430 in steps of 5;  
JAM60S17-xxx/MR/1000V, xxx= 315 to 355 in steps of 5;  
JAM72S10-xxx/MB/1000V, xxx= 395 to 415 in steps of 5;  
JAM60S10-xxx/MB/1000V, xxx= 330 to 345 in steps of 5;  
JAM72S20-xxx/MR/1000V, xxx= 430 to 470 in steps of 5;  
JAM60S20-xxx/MR/1000V, xxx= 355 to 390 in steps of 5;  
JAM78S30-xxx/MR/1000V, xxx= 580 to 605 in steps of 5;  
JAM72S30-xxx/MR/1000V, xxx= 510 to 555 in steps of 5;  
JAM66S30-xxx/MR/1000V, xxx= 470 to 505 in steps of 5;  
JAM60S30-xxx/MR/1000V, xxx= 435 to 460 in steps of 5;  
JAM54S30-xxx/MR/1000V, xxx= 390 to 425 in steps of 5;  
JAM54S30-xxx/MB/1000V, xxx= 385 to 410 in steps of 5;  
JAM54S31-xxx/MB/1000V, xxx= 385 to 405 in steps of 5;  
JAM60S21-xxx/MR/1000V, xxx= 355 to 390 in steps of 5;  
JAM50S40-xxx/MR/1000V, xxx= 490 to 500 in steps of 5;  
JAM72S20-xxx/MB/1000V, xxx= 450 to 465 in steps of 5;  
JAM60S20-xxx/MB/1000V, xxx= 375 to 390 in steps of 5;  
JAM72S31-xxx/MR/1000V, xxx= 510 to 545 in steps of 5;  
JAM66S31-xxx/MR/1000V, xxx= 470 to 500 in steps of 5;  
JAM60S31-xxx/MR/1000V, xxx= 425 to 450 in steps of 5;  
JAM54S31-xxx/MR/1000V, xxx= 385 to 405 in steps of 5;  
JAM76S11-xxx/PR(B)/1000V, xxx= 395 to 415 in steps of 5;  
JAM78S30-xxx/GR/1000V, xxx= 575 to 610 in steps of 5;  
JAM72S30-xxx/GR/1000V, xxx= 535 to 560 in steps of 5;  
JAM66S30-xxx/GR/1000V, xxx= 500 to 510 in steps of 5;  
JAM60S30-xxx/GR/1000V, xxx= 445 to 470 in steps of 5;  
JAM54S30-xxx/GR/1000V, xxx= 400 to 420 in steps of 5;  
JAM78S31-xxx/GR/1000V, xxx= 570 to 590 in steps of 5;  
JAM72S31-xxx/GR/1000V, xxx= 525 to 545 in steps of 5;  
JAM66S31-xxx/GR/1000V, xxx= 480 to 500 in steps of 5;  
JAM60S31-xxx/GR/1000V, xxx= 430 to 450 in steps of 5;  
JAM54S31-xxx/GR/1000V, xxx= 395 to 415 in steps of 5;  
JAM72S17-xxx/GR/1000V, xxx= 385 to 400 in steps of 5;  
JAM72S40-xxx/GR/1000V, xxx= 540 to 575 in steps of 5;  
JAM66S40-xxx/GR/1000V, xxx= 495 to 525 in steps of 5;  
JAM60S40-xxx/GR/1000V, xxx= 450 to 480 in steps of 5;  
JAM54S40-xxx/GR/1000V, xxx= 405 to 430 in steps of 5;  
JAM72S41-xxx/GR/1000V, xxx= 540 to 570 in steps of 5;  
JAM66S41-xxx/GR/1000V, xxx= 495 to 525 in steps of 5;  
JAM60S41-xxx/GR/1000V, xxx= 450 to 475 in steps of 5;  
JAM54S41-xxx/GR/1000V, xxx= 405 to 430 in steps of 5;

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JAM66S35-xxx/MR/1000V, xxx= 650 to 670 in steps of 5;  
JAM60S35-xxx/MR/1000V, xxx= 590 to 610 in steps of 5;  
JAM72S30-xxx/LR/1000V, xxx= 555 to 580 in steps of 5;  
JAM54S30-xxx/LR/1000V, xxx= 415 to 435 in steps of 5;  
JAM54S31-xxx/LR/1000V, xxx= 415 to 420 in steps of 5;  
JAM54S30-xxx/LB/1000V, xxx= 410 to 425 in steps of 5;  
JAM54S31-xxx/LB/1000V, xxx= 410 to 415 in steps of 5;

1000 V DC or 1500 V DC Maximum System Voltage,  
Single Glass Modules:

JAM72S01-xxx/SC, xxx= 320 to 365 in steps of 5;  
JAM60S01-xxx/SC, xxx= 265 to 305 in steps of 5;  
JAM60S01-xxx/PR, xxx= 285 to 325 in steps of 5;  
JAM72S01-xxx/MR, xxx= 365 to 385 in steps of 5;  
JAM60S01-xxx/MR, xxx= 305 to 320 in steps of 5;  
JAM72S03-xxx/PR, xxx= 360 to 395 in steps of 5;  
JAM60S03-xxx/PR, xxx= 300 to 330 in steps of 5;  
JAM72S09-xxx/PR, xxx= 370 to 405 in steps of 5;  
JAM60S09-xxx/PR, xxx= 310 to 335 in steps of 5;  
JAM72S10-xxx/PR, xxx= 380 to 410 in steps of 5;  
JAM60S10-xxx/PR, xxx= 315 to 345 in steps of 5;  
JAM72S10-xxx/MR, xxx= 390 to 430 in steps of 5;  
JAM60S10-xxx/MR, xxx= 325 to 355 in steps of 5;  
JAM60S10-xxx/MR-L, xxx= 325 to 355 in steps of 5;  
JAM78S10-xxx/MR, xxx= 435 to 465 in steps of 5;  
JAM66S10-xxx/MR, xxx= 345 to 390 in steps of 5;  
JAM72S09-xxx/BP, xxx= 375 to 385 in steps of 5;  
JAM60S09-xxx/BP, xxx= 315 to 320 in steps of 5;  
JAM72S10-xxx/BP, xxx= 385 to 400 in steps of 5;  
JAM60S10-xxx/BP, xxx= 320 to 330 in steps of 5;  
JAM72S02-xxx/PR, xxx= 345 to 390 in steps of 5;  
JAM60S02-xxx/PR, xxx= 285 to 325 in steps of 5;  
JAM72S02-xxx/SC, xxx= 320 to 365 in steps of 5;  
JAM60S02-xxx/SC, xxx= 265 to 305 in steps of 5;  
JAM72S02-xxx/MR, xxx= 365 to 385 in steps of 5;  
JAM60S02-xxx/MR, xxx= 305 to 320 in steps of 5;  
JAM72S08-xxx/PR, xxx= 360 to 395 in steps of 5;  
JAM60S08-xxx/PR, xxx= 300 to 330 in steps of 5;  
JAM72S12-xxx/PR, xxx= 365 to 385 in steps of 5;  
JAM60S12-xxx/PR, xxx= 305 to 330 in steps of 5;  
JAM72S17-xxx/PR, xxx= 380 to 390 in steps of 5;  
JAM60S17-xxx/PR, xxx= 315 to 325 in steps of 5;  
JAM72S17-xxx/MR, xxx= 390 to 430 in steps of 5;  
JAM60S17-xxx/MR, xxx= 315 to 355 in steps of 5;  
JAM72S10-xxx/MB, xxx= 395 to 415 in steps of 5;  
JAM60S10-xxx/MB, xxx= 330 to 345 in steps of 5;  
JAM72S20-xxx/MR, xxx= 430 to 470 in steps of 5;  
JAM60S20-xxx/MR, xxx= 355 to 390 in steps of 5;  
JAM78S10-xxx/MR-J, xxx= 435 to 465 in steps of 5;  
JAM78S30-xxx/MR, xxx= 580 to 605 in steps of 5;  
JAM72S30-xxx/MR, xxx= 510 to 555 in steps of 5;  
JAM66S30-xxx/MR, xxx= 470 to 505 in steps of 5;  
JAM60S30-xxx/MR, xxx= 435 to 460 in steps of 5;  
JAM54S30-xxx/MR, xxx= 390 to 425 in steps of 5;  
JAM54S30-xxx/MB, xxx= 385 to 410 in steps of 5;  
JAM54S31-xxx/MB, xxx= 385 to 405 in steps of 5;  
JAM60S21-xxx/MR, xxx= 355 to 390 in steps of 5;  
JAM50S40-xxx/MR, xxx= 490 to 500 in steps of 5;  
JAM72S20-xxx/MB, xxx= 450 to 465 in steps of 5;  
JAM60S20-xxx/MB, xxx= 375 to 390 in steps of 5;  
JAM68S11-xxx/PR, xxx= 355 to 365 in steps of 5;  
JAM68S11-xxx/PR(B), xxx= 345 to 365 in steps of 5;  
JAM72S31-xxx/MR, xxx= 510 to 545 in steps of 5;  
JAM66S31-xxx/MR, xxx= 470 to 500 in steps of 5;  
JAM60S31-xxx/MR, xxx= 425 to 450 in steps of 5;  
JAM54S31-xxx/MR, xxx= 385 to 405 in steps of 5;  
JAM76S11-xxx/PR(B), xxx= 395 to 415 in steps of 5;  
JAM78S30-xxx/GR, xxx= 575 to 610 in steps of 5;  
JAM72S30-xxx/GR, xxx= 535 to 560 in steps of 5;  
JAM66S30-xxx/GR, xxx= 500 to 510 in steps of 5;



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JAM60S30-xxx/GR, xxx= 445 to 470 in steps of 5;  
JAM54S30-xxx/GR, xxx= 400 to 420 in steps of 5;  
JAM78S31-xxx/GR, xxx= 570 to 590 in steps of 5;  
JAM72S31-xxx/GR, xxx= 525 to 545 in steps of 5;  
JAM66S31-xxx/GR, xxx= 480 to 500 in steps of 5;  
JAM60S31-xxx/GR, xxx= 435 to 450 in steps of 5;  
JAM54S31-xxx/GR, xxx= 395 to 415 in steps of 5;  
JAM72S17-xxx/GR, xxx= 385 to 400 in steps of 5;  
JAM72S40-xxx/GR, xxx= 540 to 575 in steps of 5;  
JAM66S40-xxx/GR, xxx= 495 to 525 in steps of 5;  
JAM60S40-xxx/GR, xxx= 450 to 480 in steps of 5;  
JAM54S40-xxx/GR, xxx= 405 to 430 in steps of 5;  
JAM72S41-xxx/GR, xxx= 540 to 570 in steps of 5;  
JAM66S41-xxx/GR, xxx= 495 to 525 in steps of 5;  
JAM60S41-xxx/GR, xxx= 450 to 475 in steps of 5;  
JAM54S41-xxx/GR, xxx= 405 to 430 in steps of 5;  
JAM66S35-xxx/MR, xxx= 650 to 670 in steps of 5;  
JAM60S35-xxx/MR, xxx= 590 to 610 in steps of 5;  
JAM72S30-xxx/LR, xxx= 555 to 580 in steps of 5;  
JAM54S30-xxx/LR, xxx= 415 to 435 in steps of 5;  
JAM54S31-xxx/LR, xxx= 415 to 420 in steps of 5;  
JAM54S30-xxx/LB, xxx= 410 to 425 in steps of 5;  
JAM54S31-xxx/LB, xxx= 410 to 415 in steps of 5;

#### 1500 V DC Maximum System Voltage, Single Glass Modules:

JAM6(K)-72-xxx/PR/1500V, xxx= 345 to 370 in steps of 5;  
JAM6(K)-60-xxx/PR/1500V, xxx= 285 to 310 in steps of 5;  
JAM6(K)-72-xxx/4BB/1500V, xxx= 320 to 345 in steps of 5;  
JAM6(K)-60-xxx/4BB/1500V, xxx= 265 to 285 in steps of 5;  
JAM72S01-xxx/SC/1500V, xxx= 320 to 365 in steps of 5;  
JAM60S01-xxx/SC/1500V, xxx= 265 to 305 in steps of 5;  
JAM72S01-xxx/PR, xxx= 345 to 390 in steps of 5;  
JAM60S01-xxx/PR/1500V, xxx= 285 to 325 in steps of 5;  
JAM72S01-xxx/MR/1500V, xxx= 365 to 385 in steps of 5;  
JAM60S01-xxx/MR/1500V, xxx= 305 to 320 in steps of 5;  
JAM72S03-xxx/PR/1500V, xxx= 360 to 395 in steps of 5;  
JAM60S03-xxx/PR/1500V, xxx= 300 to 330 in steps of 5;  
JAM72S09-xxx/PR/1500V, xxx= 370 to 405 in steps of 5;  
JAM60S09-xxx/PR/1500V, xxx= 310 to 335 in steps of 5;  
JAM72S10-xxx/PR/1500V, xxx= 380 to 410 in steps of 5;  
JAM60S10-xxx/PR/1500V, xxx= 315 to 345 in steps of 5;  
JAM72S10-xxx/MR/1500V, xxx= 390 to 430 in steps of 5;  
JAM60S10-xxx/MR/1500V, xxx= 325 to 355 in steps of 5;  
JAM60S10-xxx/MR-L/1500V, xxx= 325 to 355 in steps of 5;  
JAM78S10-xxx/MR/1500V, xxx= 435 to 465 in steps of 5;  
JAM66S10-xxx/MR/1500V, xxx= 345 to 390 in steps of 5;  
JAM72S09-xxx/BP/1500V, xxx= 375 to 385 in steps of 5;  
JAM60S09-xxx/BP/1500V, xxx= 315 to 320 in steps of 5;  
JAM72S10-xxx/BP/1500V, xxx= 385 to 400 in steps of 5;  
JAM60S10-xxx/BP/1500V, xxx= 320 to 330 in steps of 5;  
JAM72S02-xxx/PR/1500V, xxx= 345 to 390 in steps of 5;  
JAM60S02-xxx/PR/1500V, xxx= 285 to 325 in steps of 5;  
JAM72S02-xxx/SC/1500V, xxx= 320 to 365 in steps of 5;  
JAM60S02-xxx/SC/1500V, xxx= 265 to 305 in steps of 5;  
JAM72S02-xxx/MR/1500V, xxx= 365 to 385 in steps of 5;  
JAM60S02-xxx/MR/1500V, xxx= 305 to 320 in steps of 5;  
JAM72S08-xxx/PR/1500V, xxx= 360 to 395 in steps of 5;  
JAM60S08-xxx/PR/1500V, xxx= 300 to 330 in steps of 5;  
JAM72S12-xxx/PR/1500V, xxx= 365 to 385 in steps of 5;  
JAM60S12-xxx/PR/1500V, xxx= 305 to 330 in steps of 5;  
JAM72S17-xxx/PR/1500V, xxx= 380 to 390 in steps of 5;  
JAM60S17-xxx/PR/1500V, xxx= 315 to 325 in steps of 5;  
JAM72S17-xxx/MR/1500V, xxx= 390 to 430 in steps of 5;  
JAM60S17-xxx/MR/1500V, xxx= 315 to 355 in steps of 5;  
JAM72S10-xxx/MB/1500V, xxx= 395 to 415 in steps of 5;  
JAM60S10-xxx/MB/1500V, xxx= 330 to 345 in steps of 5;  
JAM72S20-xxx/MR/1500V, xxx= 430 to 470 in steps of 5;  
JAM60S20-xxx/MR/1500V, xxx= 355 to 390 in steps of 5;  
JAM78S30-xxx/MR/1500V, xxx= 580 to 605 in steps of 5;  
JAM72S30-xxx/MR/1500V, xxx= 510 to 555 in steps of 5;

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JAM66S30-xxx/MR/1500V, xxx=470 to 505 in steps of 5;  
 JAM60S30-xxx/MR/1500V, xxx=435 to 460 in steps of 5;  
 JAM54S30-xxx/MR/1500V, xxx= 390 to 425 in steps of 5;  
 JAM54S30-xxx/MB/1500V, xxx= 385 to 410 in steps of 5;  
 JAM54S31-xxx/MB/1500V, xxx= 385 to 405 in steps of 5;  
 JAM60S21-xxx/MR/1500V, xxx= 355 to 390 in steps of 5;  
 JAM50S40-xxx/MR/1500V, xxx= 490 to 500 in steps of 5;  
 JAM72S20-xxx/MB/1500V, xxx= 450 to 465 in steps of 5;  
 JAM60S20-xxx/MB/1500V, xxx= 375 to 390 in steps of 5;  
 JAM72S31-xxx/MR/1500V, xxx= 510 to 545 in steps of 5;  
 JAM66S31-xxx/MR/1500V, xxx= 470 to 500 in steps of 5;  
 JAM60S31-xxx/MR/1500V, xxx= 425 to 450 in steps of 5;  
 JAM54S31-xxx/MR/1500V, xxx= 385 to 405 in steps of 5;  
 JAM76S11-xxx/PR(B)/1500V, xxx= 395 to 415 in steps of 5;  
 JAM78S30-xxx/GR/1500V, xxx= 575 to 610 in steps of 5;  
 JAM72S30-xxx/GR/1500V, xxx= 535 to 560 in steps of 5;  
 JAM66S30-xxx/GR/1500V, xxx= 500 to 510 in steps of 5;  
 JAM60S30-xxx/GR/1500V, xxx= 445 to 470 in steps of 5;  
 JAM54S30-xxx/GR/1500V, xxx= 400 to 420 in steps of 5;  
 JAM78S31-xxx/GR/1500V, xxx= 570 to 590 in steps of 5;  
 JAM72S31-xxx/GR/1500V, xxx= 525 to 545 in steps of 5;  
 JAM66S31-xxx/GR/1500V, xxx= 480 to 500 in steps of 5;  
 JAM60S31-xxx/GR/1500V, xxx= 435 to 450 in steps of 5;  
 JAM54S31-xxx/GR/1500V, xxx= 395 to 415 in steps of 5;  
 JAM72S17-xxx/GR/1500V, xxx= 385 to 400 in steps of 5;  
 JAM72S40-xxx/GR/1500V, xxx= 540 to 575 in steps of 5;  
 JAM66S40-xxx/GR/1500V, xxx= 495 to 525 in steps of 5;  
 JAM60S40-xxx/GR/1500V, xxx= 450 to 480 in steps of 5;  
 JAM54S40-xxx/GR/1500V, xxx= 405 to 430 in steps of 5;  
 JAM72S41-xxx/GR/1500V, xxx= 540 to 570 in steps of 5;  
 JAM66S41-xxx/GR/1500V, xxx= 495 to 525 in steps of 5;  
 JAM60S41-xxx/GR/1500V, xxx= 450 to 475 in steps of 5;  
 JAM54S41-xxx/GR/1500V, xxx= 405 to 430 in steps of 5;  
 JAM66S35-xxx/MR/1500V, xxx= 650 to 670 in steps of 5;  
 JAM60S35-xxx/MR/1500V, xxx= 590 to 610 in steps of 5;  
 JAM72S30-xxx/LR/1500V, xxx= 555 to 580 in steps of 5;  
 JAM54S30-xxx/LR/1500V, xxx= 415 to 435 in steps of 5;  
 JAM54S31-xxx/LR/1500V, xxx= 415 to 420 in steps of 5;  
 JAM54S30-xxx/LB/1500V, xxx= 410 to 425 in steps of 5;  
 JAM54S31-xxx/LB/1500V, xxx= 410 to 415 in steps of 5;  
 xxx is standing for rated output power at STC

## Parameters:

Construction:	Framed or Frameless, 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
Safety Class:	Class II
Maximum System Voltage:	1500 V DC or 1000 V DC
Fire Safety Class:	Class C according to UL790.
Production Facility(ies):	079395, 095903, 090968, 108746, 072092, 109998, 112017, 113943, 114922, 001783, 004170, 113691, 117043, 119123, 120210, 117684, 114994, 120736, 115500, 120016, 108093, 121678.

## Tested according to:

IEC 61215-1:2016  
 IEC 61215-1-1:2016  
 IEC 61215-2:2016  
 IEC 61730-1:2016  
 IEC 61730-2:2016  
 EN IEC 61730-1:2018  
 EN IEC 61730-1:2018/AC:2018-06  
 EN IEC 61730-2:2018  
 EN IEC 61730-2:2018/AC:2018-06