



CERTIFICATE

No. Z2 072092 0300 Rev. 23

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

Test report no.:

704061900211-23

Valid until:

2028-04-28

Date, 2

2023-06-02

gztis

(Zhulin Zhang)



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No. Z2 072092 0300 Rev. 23

Model(s):

Maximum System Voltage: 1000 V DC 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 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 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/PR/1000V, xxx=380 to 410 in steps of 5 JAM60S10-xxx/PR/1000V, xxx=315 to 345 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 JAM72S10-xxx/MR/1000V, xxx=390 to 430 in steps of 5 JAM60S10-xxx/MR/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 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 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 JAM60S21-xxx/MR/1000V, xxx=355 to 390 in steps of 5 JAM54S30-xxx/MR/1000V, xxx=390 to 425 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 JAM76S11-xxxPR(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 465 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=435 to 450 in steps of 5 JAM54S31-xxx/GR/1000V, xxx=395 to 415 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 JAM78S30-xxx/MR/1000V, xxx=580 to 605 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 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/1000Vxxx=415 to 435 in steps of 5 JAM54S31-XXX/LR/1000V.xxx=415 to 420 in steps of 5

Maximum System Voltage: 1500 V DC JAM72D00-xxx/BP/1500V, xxx=330 to 385 in steps of 5 JAM72D00-xxx/BP, xxx=330 to 385 in steps of 5 JAM60D00-xxx/BP/1500V, xxx=275 to 320 in steps of 5 JAM60D00-xxx/BP, xxx=275 to 320 in steps of 5 JAM72D00-xxx/PR/1500V, xxx=340 to 385 in steps of 5 JAM72D00-xxx/PR, xxx=340 to 385 in steps of 5 JAM60D00-xxx/PR/1500V, xxx=285 to 320 in steps of 5 JAM60D00-xxx/PR, xxx=285 to 320 in steps of 5 JAM72D09-xxx/BP/1500V, xxx=360 to 400 in steps of 5 JAM72D09-xxx/BP, xxx=360 to 400 in steps of 5 JAM60D09-xxx/BP/1500V, xxx=300 to 340 in steps of 5 JAM60D09-xxx/BP, xxx=300 to 340 in steps of 5 JAM72D10-xxx/MB/1500V, xxx=385 to 430 in steps of 5 JAM72D10-xxx/MB, xxx=385 to 430 in steps of 5 JAM60D10-xxx/MB/1500V, xxx=320 to 355 in steps of 5 JAM60D10-xxx/MB, xxx=320 to 355 in steps of 5 JAM72D10-xxx/BP/1500V, xxx=385 to 415 in steps of 5 JAM72D10-xxx/BP. xxx=385 to 415 in steps of 5 JAM60D10-xxx/BP/1500V, xxx=320 to 345 in steps of 5 JAM60D10-xxx/BP, xxx=320 to 345 in steps of 5 JAM66D10-xxx/MB, xxx=360 to 380 in steps of 5 JAM66D10-xxx/MB/1500V, xxx=360 to 380 in steps of 5 JAM78D10-xxx/MB, xxx=435 to 455 in steps of 5 JAM78D10-xxx/MB/1500V, xxx=435 to 455 in steps of 5 JAM72D20-xxx/MB, xxx=430 to 465 in steps of 5 JAM72D20-xxx/MB/1500V, xxx=430 to 465 in steps of 5 JAM60D20-xxx/MB, xxx=355 to 385 in steps of 5 JAM60D20-xxx/MB/1500V, xxx=355 to 385 in steps of 5 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 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 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 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 JAM72S30-xxx/MR/1500V, xxx=510 to 555 in steps of 5 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 JAM60S21-xxx/MR/1500V, xxx=355 to 390 in steps of 5 JAM72D30-xxx/MB, xxx=505 to 555 in steps of 5 JAM72D30-xxx/MB/1500V, xxx=505 to 555 in steps of 5 JAM66D30-xxx/MB. xxx=465 to 505 in steps of 5 JAM66D30-xxx/MB/1500V, xxx=465 to 505 in steps of 5 JAM60D30-xxx/MB, xxx=435 to 460 in steps of 5 JAM60D30-xxx/MB/1500V, xxx=435 to 460 in steps of 5 JAM54D30-xxx/MB, xxx=390 to 415 in steps of 5 JAM54D30-xxx/MB/1500V, xxx=390 to 415 in steps of 5 JAM54D31-xxx/MB, xxx=395 to 400 in steps of 5 JAM54D31-xxx/MB/1500V, xxx=395 to 400 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 JAM76S11-xxxPR(B)/1500V, xxx=395 to 415 in steps of 5 JAM78D30-xxx/GB, JAM78D30-xxx/GB/1500V, xxx=585 to 610 in steps of 5 JAM72D30-xxx/GB, JAM72D30-xxx/GB/1500V, xxx=540 to 560 in steps of 5 JAM66D30-xxx/GB, JAM66D30-xxx/GB/1500V, xxx=495 to 510 in steps of 5 JAM60D30-xxx/GB, JAM60D30-xxx/GB/1500V, xxx=450 to 465 in steps of 5 JAM54D30-xxx/GB, JAM54D30-xxx/GB/1500V, xxx=405 to 420 in steps of 5 JAM54D31-xxx/GB, JAM54D30-xxx/GB/1500V, xxx=410 to 420 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 465 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 JAM72S10-xxx/MR/1500V, xxx=390 to 430 in steps of 5 JAM60S10-xxx/MR/1500V, xxx=325 to 355 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 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 JAM78S30-xxx/MR/1500V, xxx=580 to 605 in steps of 5 JAM72S17-xxx/GR/1500V, xxx=385 to 400 in steps of 5 JAM78D30-xxx/MB, JAM78D30-xxx/MB/1500V, xxx=580 to 605 in steps of 5 JAM72D30-xxx/HB, JAM72D30-xxx/HB/1500V, xxx=530 to 560 in steps of 5 JAM78D40-xxx/MB, xxx=580 to 630 in steps of 5 JAM78D40-xxx/MB/1500V, xxx=580 to 630 in steps of 5 JAM72D40-xxx/MB, xxx=540 to 580 in steps of 5 JAM72D40-xxx/MB/1500V, xxx=540 to 580 in steps of 5 JAM66D40-xxx/MB, xxx=500 to 530 in steps of 5 JAM66D40-xxx/MB/1500V, xxx=500 to 530 in steps of 5 JAM60D40-xxx/MB, xxx=455 to 480 in steps of 5 JAM60D40-xxx/MB/1500V, xxx=455 to 480 in steps of 5 JAM54D40-xxx/MB, xxx=405 to 435 in steps of 5 JAM54D40-xxx/MB/1500V, xxx=405 to 435 in steps of 5 JAM78D40-xxx/GB, xxx= 580 to 635 in steps of 5

JAM72D40-xxx/GB, xxx= 540 to 585 in steps of 5 JAM72D40-xxx/GB/1500V, xxx= 540 to 585 in steps of 5 JAM66D40-xxx/GB, xxx= 500 to 535 in steps of 5 JAM66D40-xxx/GB/1500V, xxx= 500 to 535 in steps of 5 JAM60D40-xxx/GB, xxx= 455 to 485 in steps of 5 JAM60D40-xxx/GB/1500V, xxx= 455 to 485 in steps of 5 JAM54D40-xxx/GB, xxx= 405 to 440 in steps of 5 JAM54D40-xxx/GB/1500V, xxx= 405 to 440 in steps of 5 JAM54D41-xxx/GB, xxx= 415 to 435 in steps of 5 JAM54D41-xxx/GB/1500V, xxx= 415 to 435 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 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: JAM66S35-xxx/MR/1500V, xxx= 650 to 670 in steps of 5; JAM60S35-xxx/MR/1500V, xxx= 590 to 610 in steps of 5; JAM72D40-xxx/LB, xxx= 575 to 600 in steps of 5; JAM72D40-xxx/LB/1500V, xxx= 575 to 600 in steps of 5; JAM54D40-xxx/LB, xxx= 420 to 450 in steps of 5; JAM54D40-xxx/LB/1500V, xxx= 420 to 450 in steps of 5; JAM54D41-xxx/LB, xxx= 420 to 440 in steps of 5; JAM54D41-xxx/LB/1500V, xxx= 420 to 440 in steps of 5; JAM72D42-xxx/LB, xxx= 605 to 630 in steps of 5 JAM72D42-xxx/LB/1500V. xxx= 605 to 630 in steps of 5 JAM72D30-xxx/LB, xxx= 555 to 575 in steps of 5 JAM72D30-xxx/LB/1500V, xxx= 555 to 575 in steps of 5 JAM54D30-xxx/LB, xxx= 420 to 430 in steps of 5 JAM54D30-xxx/LB/1500V. xxx= 420 to 430 in steps of 5 Maximum System Voltage: 1000 or 1500 V DC 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 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 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 JAM72S10-xxx/MB, xxx=395 to 415 in steps of 5

JAM78D40-xxx/GB/1500V, xxx= 580 to 635 in steps of 5

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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 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 JAM60S21-xxx/MR, xxx=355 to 390 in steps of 5 JAM54S30-xxx/MR, xxx=390 to 425 in steps of 5 JAM68S11-xxx/PR(B), xxx=345 to 365 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 JAM76S11-xxxPR(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 JAM60S30-xxx/GR, xxx=445 to 465 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 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 JAM72S17-xxx/MR, xxx=390 to 430 in steps of 5 JAM60S17-xxx/MR, xxx=315 to 355 in steps of 5 JAM78S30-xxx/MR, xxx=580 to 605 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 to435in steps of 5 JAM54S31-XXX/LR, xxx=415 to 420 in steps of 5 xxx is standing for rated output power at STC



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Parameters:

Construction:

with Junction box, cable and Connectors. Fire Safety Class: Class C or Class A according to UL790. Safety Class: Class II Maximum System Voltage: 1000 V DC or 1500V DC PID Test Condition: ±1000 V DC, 96h, 60°C, 85% RH or 96h, 85°C, 85% RH ±1500 V DC, 96h, 85°C, 85% RH PID testing method according to IEC TS 62804-1:2015 Production Facility(ies): 072092, 079395, 117043, 095903, 108746, 109998, 112017, 113943, 114922, 001783, 004170, 113691, 090968, 119123, 120210, 117684, 114994, 120736, 115500, 120016,

108093

Framed or Frameless,

Tested according to:

IEC 61215-1(ed.1) IEC 61215-1-1(ed.1) IEC 61215-2(ed.1) IEC 61730-1(ed.2) IEC 61730-2(ed.2) PPP 58042B:2015