

ist Hersteller und verantwortlich für:

## Konformitätserklärung / Declaration of Conformity

Produkt-Typ:	Plug & Play Photovoltaik-Set für Netzparallelbetrieb steckbar mittels Haushaltsstecker in Endstromkreis
Modell:	840 Wp Plug & Play Solar (CN)
Komponenten:	<ul style="list-style-type: none"> <li>• 2x JA Solar JAM54S30-420/GR / 420 Wp / IP-67 / Schutzklasse II</li> <li>• 1x Hoymiles HMS-600W-2T mit N/A Schutz und eingebauter RCMU / IP67 Schutzart / Schutzklasse II / Input max. 60VDC, Output max. 230VAC, 50-60Hz, 600VA, 2,61A</li> <li>• 1x Anschlusskabel vorkonfektioniert mit Better BC05i Buchse IP67, 5m/10m/15m 3x2,5mm<sup>2</sup> Leitung / AC Seitig CH-Typ 13 Stecker IP 55</li> </ul>

**Konform nach ESTI-Mitteilung 07/2014 und in Übereinstimmung mit der Verordnung über elektrische Niederspannungserzeugnisse (NEV; SR 734.26) (Stand 06.03.2023).**

### Dazu angewandte Normen:

JA Solar JAM54S30-420/GR	EN 61215-1:2016, EN 61215-1-1:2016, IEC 61215-2:2016, EN 61215-2:2017, IEC 61730-1:2016, EN IEC 61730-1:2018, EN IEC 61730-1:2018/AC:2018-06, IEC 61730-2:2016, EN IEC 61730-2:2018, EN IEC 61730-2:2018/AC:2018-06
Hoymiles HMS-600W-2T	VDE-ARN-N 4105: 2018-11, VDE V 0124-100:2020-06 & EN50549-1:2019, VFR 2019 IEC/EN 62109-1:2010/-2:2011, IEC/EN 61000-6-1:2019;EN 61000-6-2:2000; EN 61000-6-3:2007+A1:2011; EN 61000-6-4:2019; EN 61000-3-2:2019; EN 61000-3-3:2013+A1:2019, IEC/EN 62311:2008 NEMA (IP67) Gehäuse; 6000 V Stromstosschutz
Hoymiles Anschlusskabel vorkonfektioniert 5m/10m/15m	Betteri Buchse Wechselrichterseite, Schutzart IEC EN 60529 IP67 Anschlusskabel 5m oder 10m H07RN-F, EN 50525-2-21: 2011 Stecker CH Typ 13: IEC 60884-1 (Ed 4.0): 2022 / SN 441011-1: 2019 +Corr2019 / SN 441011-2-1:2021, IP55
ROHS	Gesamtes Set konform gemäss IEC EN 63000: 2018

Michael Sebel, Geschäftsführung  
erneuer.bar services GmbH



## Technische Daten zu Hoymiles HMS-600W-2T

Model	HMS-600W-2T	HMS-700W-2T	HMS-800W-2T	HMS-900W-2T	HMS-1000W-2T
<b>Input Data (DC)</b>					
Commonly used module power (W)	240 to 405+	280 to 470+	320 to 540+	360 to 600+	400 to 670+
Maximum input voltage (V)	60	60	65	65	65
MPPT voltage range (V)	16-60				
Min./Max. start voltage (V)	22/60				
Maximum input current (A)	2 × 12	2 × 13	2 × 14	2 × 15	2 × 16
Maximum input short circuit current (A)	2 × 20	2 × 20	2 × 25	2 × 25	2 × 25
Number of MPPTs	2				
Number of inputs per MPPT	1				
<b>Output Data (AC)</b>					
Rated output power (VA)	600	700	800	900	1000
Rated output current (A)	2.61	3.04	3.48	3.91	4.35
Nominal output voltage/range (V)*	230/180-275				
Nominal frequency/range (Hz)*	50/45-55				
Power factor(adjustable)	>0.99 default 0.8 leading ... 0.8 lagging				
Total harmonic distortion	< 3%				
<b>HMS Plug and Play Cable (Optional)</b>					
Connector type	HMS Field Connector				
Cable size	1.5 mm <sup>2</sup>				
Cable length	3 m (Customizable)				
Plug type	Schuko				
<b>Efficiency</b>					
CEC peak efficiency	96.70%	96.70%	96.70%	96.50%	96.50%
Nominal MPPT efficiency	99.80%				
Night power consumption (mW)	< 50				
<b>Mechanical Data</b>					
Ambient temperature range (°C)	-40 to +65				
Storage temperature range (°C)	-40 to +85				
Dimensions (W × H × D mm)	261 × 180 × 35.1				
Weight (kg)	3.2				

## Konformitätserklärung zu JA Solar JAM60S20-385/MR

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ СЕРТИФИКАТ ◆ CERTIFICAT



# CERTIFICATE

No. Z2 072092 0295 Rev. 45

**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.:** 704061604115-60

**Valid until:** 2027-01-18

**Date,** 2022-01-20

  
( Zhulin Zhang )



Product Service

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

# CERTIFICATE

No. Z2 072092 0295 Rev. 45

## Model(s):

1500 V DC Maximum System voltage, Fire Safety Class A or C 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 340 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;  
 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 595 in steps of 5;  
 JAM72D30-xxx/GB/1500V, JAM72D30-xxx/GB, xxx= 540 to 550 in steps of 5;  
 JAM66D30-xxx/GB/1500V, JAM66D30-xxx/GB, xxx= 495 to 500 in steps of 5;  
 JAM60D30-xxx/GB/1500V, JAM60D30-xxx/GB, xxx= 450 to 455 in steps of 5;  
 JAM54D30-xxx/GB/1500V, JAM54D30-xxx/GB, xxx= 405 to 410 in steps of 5;  
 JAM72D30-xxx/HB/1500V, JAM72D30-xxx/HB, xxx= 530 to 560 in steps of 5;  
 JAM78D30-xxx/TB/1500V, JAM78D30-xxx/TB, xxx= 580 to 610 in steps of 5;  
 JAM72D30-xxx/TB/1500V, JAM72D30-xxx/TB, xxx= 540 to 560 in steps of 5;  
 JAM66D30-xxx/TB/1500V, JAM66D30-xxx/TB, xxx= 500 to 515 in steps of 5;  
 JAM60D30-xxx/TB/1500V, JAM60D30-xxx/TB, xxx= 455 to 470 in steps of 5;  
 JAM54D30-xxx/TB/1500V, JAM54D30-xxx/TB, xxx= 405 to 420 in steps of 5;

1000 V DC Maximum System voltage, Fire Safety Class C 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;  
 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;



Product Service

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

## CERTIFICATE

No. Z2 072092 0295 Rev. 45

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 415 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 600 in steps of 5;  
 JAM72S30-xxx/GR/1000V, xxx= 535 to 555 in steps of 5;  
 JAM66S30-xxx/GR/1000V, xxx= 500 to 505 in steps of 5;  
 JAM60S30-xxx/GR/1000V, xxx= 445 to 460 in steps of 5;  
 JAM54S30-xxx/GR/1000V, xxx= 400 to 415 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 405 in steps of 5;  
 JAM72S17-xxx/GR/1000V, xxx= 385 to 400 in steps of 5;

1000 V DC or 1500 V DC Maximum System voltage,  
 Fire Safety Class C 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;



Product Service

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

# CERTIFICATE

No. Z2 072092 0295 Rev. 45

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 415 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 600 in steps of 5;  
 JAM72S30-xxx/GR, xxx= 535 to 555 in steps of 5;  
 JAM66S30-xxx/GR, xxx= 500 to 505 in steps of 5;  
 JAM60S30-xxx/GR, xxx= 445 to 460 in steps of 5;  
 JAM54S30-xxx/GR, xxx= 400 to 415 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 405 in steps of 5;  
 JAM72S17-xxx/GR, xxx= 385 to 400 in steps of 5;

1500 V DC Maximum System voltage, Fire Safety Class C 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;



Product Service

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT

# CERTIFICATE

No. Z2 072092 0295 Rev. 45

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;  
 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 415 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 600 in steps of 5;  
 JAM72S30-xxx/GR/1500V, xxx= 535 to 555 in steps of 5;  
 JAM66S30-xxx/GR/1500V, xxx= 500 to 505 in steps of 5;  
 JAM60S30-xxx/GR/1500V, xxx= 445 to 460 in steps of 5;  
 JAM54S30-xxx/GR/1500V, xxx= 400 to 415 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 405 in steps of 5;  
 JAM72S17-xxx/GR/1500V, xxx= 385 to 400 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 or Class A according to UL790.
Production Facility(ies):	079395, 105674, 107160, 095903, 090968, 096558, 108293, 102852, 108746, 072092, 109998, 112017, 108944, 004170, 112715, 113691, 113943, 114922.



ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

# CERTIFICATE

No. Z2 072092 0295 Rev. 45

**Tested  
according to:**

- IEC 61215-1:2016
- EN 61215-1:2016
- IEC 61215-1-1:2016
- EN 61215-1-1:2016
- IEC 61215-2:2016
- EN 61215-2:2017
- IEC 61730-1:2016
- EN IEC 61730-1:2018
- EN IEC 61730-1:2018/AC:2018-06
- IEC 61730-2:2016
- EN IEC 61730-2:2018
- EN IEC 61730-2:2018/AC:2018-06



Konformitätserklärung zu Hoymiles HMS-600W-2T



# Certificate of Conformity

Reingetragene Nr.:  
Registered No.:  
**COC PVP02105/23B-03\_R1**

Aktenzeichen File reference	Testbericht Nr. Test report No.	Ausstellungsdatum Date of issue
PVP02105/23B-03	TRPVP02105/23B/03	2023-08-03

Auf der Grundlage der durchgeführten Prüfungen wurde festgestellt, dass die Muster des/der folgenden Produkte(s) zum Zeitpunkt der Durchführung der Prüfungen die wesentlichen Anforderungen der genannten Spezifikationen erfüllen:  
*On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:*

- Antragsteller:**  
*Applicant:* **Hoymiles Power Electronics Inc.**  
No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China
- Hersteller:**  
*Manufacturer:* **Hoymiles Power Electronics Inc.**  
No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China
- Fertigungsstätte:**  
*Factory:* **Hoymiles Power Electronics Inc.**  
No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China
- Produkt:**  
*Product:* PV-Mikrowechselrichter  
PV Microinverter
- Typenbezeichnung:**  
*Type designation:* HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T,  
HMS-600W-2T, HMS-700W-2T, HMS-800W-2T, HMS-900W-2T, HMS-1000W-2T
- Zertifizierungsprogramm:**  
*Certification program:* BOS-P-01 Rev. 00
- Zertifizierungsgrundlage(n):**  
*Certification fundamental(s):* DIN VDE V 0124-100:2020-06  
VDE-AR-N 4105:2018  
Detaillierte Informationen finden Sie im Testbericht.  
*See test report for detailed information.*

Dieses Dokument basiert auf der Auswertung der Proben der oben genannten Produkte. Sie stellt keine Bewertung der Massenproduktion des/der Produkte(s) dar und erlaubt nicht die Verwendung eines TÜV NORD-Zeichens. Der Inhaber dieses Dokuments darf es in Verbindung mit dem/den zugehörigen Prüfbericht(en) verwenden.  
*This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).*

Renewable Energy  
BOS&ESS-T-009 COC



中国认可  
产品  
PRODUCT  
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.  
Member of TÜV NORD Group  
Tel: +86-571-85386989  
Fax: +86-571-85386986  
www.tuv-nord.com/cn  
P.R. China

Anlage zur zertifikats-nr. / Annex to Certificate No.: COCPVP02105/23B-03\_R1

Aktenzeichen / File reference.: PVP02105/23B-03



E.6 Zertifikat für den NA-Schutz E.6 Certificate of the network and system protection	
<b>Hersteller:</b> <i>Manufacturer:</i>	<b>Hoymiles Power Electronics Inc.</b> No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China
<b>Typ NA-Schutz:</b> <i>Type of NS protection:</i>	<input type="checkbox"/> Zentraler NA-Schutz: <i>Central NS protection</i>  <input checked="" type="checkbox"/> Integrierter NA-Schutz: Zugewiesen an Stromerzeugungseinheit vom Typ: HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T, HMS-600W-2T, HMS-700W-2T, HMS-800W-2T, HMS-900W-2T, HMS-1000W-2T <i>Integrated NS protection: Assigned to power generation unit of type: HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T, HMS-600W-2T, HMS-700W-2T, HMS-800W-2T, HMS-900W-2T, HMS-1000W-2T</i>
<b>Netzanschlussregel:</b> <i>Network connection rule:</i>	VDE-AR-N 4105:2018 "Erzeugungsanlagen am Niederspannungsnetz" <i>VDE-AR-N 4105:2018 "Generators connected to the low-voltage distribution network"</i>  Technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsanlagen mit Anschluss an das Niederspannungsnetz <i>Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage network</i>
<b>Prüfanforderung:</b> <i>Test requirement:</i>	DIN VDE V 0124-100 (VDE V 0124-100):2020-06 "Netzintegration von Erzeugungsanlagen - Niederspannung" <i>DIN VDE V 0124-100 (VDE V 0124-100):2020-06 "Network integration of power generation systems - Low voltage"</i>  Prüfanforderungen für Erzeugungseinheiten zum Anschluss und Parallelbetrieb am Niederspannungsnetz <i>Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network</i>
<b>Prüfbericht:</b> <i>Test report:</i>	TRPVP02105/23B/03 ausgestellt am 2023-06-08 <i>TRPVP02105/23B/03 issued on 2023-06-08</i>
<p>Der oben bezeichnete Netz- und Anlagenschutz entspricht den Anforderungen der VDE-AR-N 4105. <i>The network and system protection designated above meets the requirements of VDE-AR-N 4105.</i></p> <p>Dieses NA-Schutzzertifikat darf nicht auszugsweise verwendet werden. <i>This NS protection certificate shall not be used in extracts.</i></p>	

Renewable Energy

BOS&ESS-T-009 COC



中国认可  
产品  
PRODUCT  
CNAS C183-P

Seite 2 von 5 / Page 2 of 5

TÜV NORD (HANGZHOU) CO., LTD.  
Member of TÜV NORD Group  
Tel: +86-571-85386989  
Fax: +86-571-85386986  
www.tuv-nord.com/cn  
P.R. China

Version 1.0

Anlage zur zertifikats-nr. / Annex to Certificate No.: COCPVP02105/23B-03\_R1

Aktenzeichen / File reference.: PVP02105/23B-03



E.7 Anforderungen an den Prüfbericht zum NA-Schutz E.7 Requirements for the test report for the NS protection						
<b>Typ NA-Schutz:</b> <i>Type of NS protection:</i>	<input type="checkbox"/> Zentraler NA-Schutz <i>Central NS protection</i> <input checked="" type="checkbox"/> Integrierter NA-Schutz: Zugewiesen an Stromerzeugungseinheit vom Typ: HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T, HMS-600W-2T, HMS- 700W-2T, HMS-800W-2T, HMS-900W-2T, HMS-1000W-2T <i>Integrated NS protection: Assigned to power generation unit of type:                      HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-                      2T, HMS-600W-2T, HMS-700W-2T, HMS-800W-2T, HMS-900W-                      2T, HMS-1000W-2T</i>					
<b>Software-Version:</b> <i>Software version:</i>	V01.00.02					
<b>Hersteller:</b> <i>Manufacturer:</i>	Hoymiles Power Electronics Inc. No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China					
<b>Messzeitraum:</b> <i>Measurement period:</i>	Von 2022-03-10 bis 2022-08-28 From 2022-03-10 to 2022-08-28					
-	Stirlinggeneratoren, Brennstoffzellen <i>Stirling generators, fuel cells</i>		Umrichter <i>Inverter(s)</i>			
	direkt oder über Umrichter gekoppelte Synchron- und Asynchrongeneratoren mit $P_n \leq 50$ <i>Synchronous and asynchronous                      generators with <math>P_n \leq 50</math> kW                      coupled directly or via inverters</i>		direkt gekoppelte Synchron- und Asynchrongeneratoren mit $P_n > 50$ kW <i>Directly coupled synchronous and                      asynchronous generators with <math>P_n &gt;</math>                      50 kW</i>			
<b>Schutzfunktion</b> <i>Protective function</i>	Einstellwert <i>Set value</i>	Auslösewert <i>Tripping                      value</i>	*Auslösezeit NA-Schutz <i>*Tripping                      time NS                      protection</i>	Einstellwert <i>Set value</i>	Auslösewert <i>Tripping                      value</i>	*Auslösezeit NA-Schutz <i>*Tripping                      time NS                      protection</i>
<b>Spannungssteigerungsschutz</b> <b>U &gt;&gt; Rise-in-voltage protection</b> <b>U &gt;&gt;</b>	1.15 * Un	N/A	N/A	1.25 * Un	288.2V	108.4ms

  
Renewable Energy  
BOS&ESS-T-009 COC

 中国认可  
产品  
PRODUCT  
CNAS C183-P  
Seite 3 von 5 / Page 3 of 5

TÜV NORD (HANGZHOU) CO., LTD.  
Member of TÜV NORD Group  
Tel: +86-571-85386969  
Fax: +86-571-85386966  
www.tuv-nord.com/cn  
P.R. China  
Version 1.0

Anlage zur zertifikats-nr. / Annex to Certificate No.: COCPVP02105/23B-03\_R1

Aktenzeichen / File reference.: PVP02105/23B-03



Spannungssteigerungsschutz $U > *$ Rise-in-voltage protection $U > *$	$1.10 * U_n$	N/A	N/A	$1.10 * U_n$	-	s
Spannungsrückgangsschutz U < Voltage drop protection U <	$0.8 * U_n$	N/A	N/A	$0.8 * U_n$	183.83V	3068ms
Spannungsrückgangsschutz U << Voltage drop protection U <<	Entfällt N/A			$0.45 * U_n$	103.01V	336.0ms
Frequenzrückgangsschutz f < Frequency decrease protection f <	47.5Hz	N/A	N/A	47.5Hz	47.50Hz	149.0ms
Frequenzsteigerungsschutz f > Frequency increase protection f >	51.5Hz	N/A	N/A	51.5Hz	51.49Hz	154.0ms
<p>* Die Auslösezeit beinhaltet den Zeitraum von der Grenzwertverletzung U/f bis zum Auslösesignal an den Kuppelschalter. * The tripping time includes the period from the limit value violation U/f until the tripping signal to the interface switch.</p> <p>Bei der Planung der Erzeugungsanlage ist die Eigenzeit des Kuppelschalters zum höchsten oben ermittelten Zeitwert zu addieren. When planning the power generation system, the response time of the interface switch shall be added to the maximum time value obtained as indicated above.</p> <p>Die Abschaltzeit (Summe der Auslösezeit NA-Schutz zzgl. Eigenzeit des Kuppelschalters) darf 200ms nicht überschreiten. The disconnection time (sum of tripping time of the NS protection plus response time of the interface switch) shall not exceed 200ms.</p>						
<input checked="" type="checkbox"/> Bei integriertem NA-Schutz For integrated NS protection						
Zugeordnet zur Erzeugungseinheit des Typ: Assigned to power generation unit of type:				HMS-600-2T, HMS-700-2T, HMS-800-2T, HMS-900-2T, HMS-1000-2T, HMS-600W-2T, HMS-700W-2T, HMS-800W-2T, HMS-900W-2T, HMS-1000W-2T		
Typ integrierter Kuppelschalter: Type integrated interface switch:				Typ Schalteinrichtung 1: Galvanische Trennung Hochfrequenz transformator Type of switch 1: Galvanic isolation high frequency transformer		

Renewable Energy

BOS&ESS-T-009 COC



中国认可  
产品  
PRODUCT  
CNAS C183-P

Seite 4 von 5 / Page 4 of 5

TÜV NORD (HANGZHOU) CO., LTD.  
Member of TÜV NORD Group  
Tel: +86-571-85386989  
Fax: +86-571-85386986  
www.tuv-nord.com/cn  
P.R. China

Version 1.0

Anlage zur zertifikats-nr. / Annex to Certificate No.: COCPVP02105/23B-03\_R1

Aktenzeichen / File reference.: PVP02105/23B-03



	Typ Schalteinrichtung 2: Relais Type of switch 2: <i>Relay</i>
<b>Eigenzeit des Kuppelschalters bei integriertem NA-Schutz:</b> <i>Response time of interface switch for integrated NS protection:</i>	8ms

- Die Überprüfung der Gesamtwirkungskette "integrierter NA-Schutz - Kuppelschalter" führte zu einer erfolgreichen Abschaltung.  
*Verification of the entire functional chain "integrated NS protection – interface switch" has resulted in successful disconnection.*

Renewable Energy

BOS&ESS-T-009 COC



中国认可  
产品  
PRODUCT  
CNAS C183-P

Seite 5 von 5 / Page 5 of 5

TÜV NORD (HANGZHOU) CO., LTD.  
Member of TÜV NORD Group  
Tel: +86-571-85386989  
Fax: +86-571-85386986  
www.tuv-nord.com/cn  
P.R. China

Version 1.0