

Konformitätserklärung

Produkt-Typ: Plug & Play PV-Anlage / AC-Modul
Modell: 680 Wp Plug & Play Solar (CN)
Komponenten:

- 2x JA Solar JAM60S10-340/MR 340Wp
- 2x Enphase IQ7+, ohne RCMU, AC/DC Kreis galvanisch getrennt gemäss IEC / EN 62109-1 / -2 sowie VDE-AR-N 4105
- Doppelt isoliertes IP67-Gehäuse der Schutzklasse II
- 2x Enphase Q-Kabel vorkonfekt. 2x2,5mm², IP67
- 1x Enphase Abschlusskappe, IP67
- 1x Heitronic 3pol. Kabelverbinder IP68
- 1x 3 - 10m AC Anschlusskabel 2x1,5mm² (Panzerrohr optional)
- 1x Gummistecker, IP54
- 1x Brennenstuhl Personenschutz-Stecker / PRCD, IP54

Normangaben der einzelnen Komponenten (im Anhang belegt)

Konform nach ESTI Mitteilung 07/2014

JA Solar JAM60S10-340/MR	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
Enphase IQ7+	VDE-AR-N 4105:2011-08, EN 62109-1:2010, EN 62109-2:2011 – Power generation systems connected to the low-voltage distribution network. See Enphase Energy NZ Ltd test report P20171211_09 for full test data. Netzprofil “EN50549-1:2019 VSE AES NA/EEA-NE7:2020” ist voreingestellt.
Enphase Q-Kabel / Abschlusskappe	Schutzart IEC 60529 IP67 Konformität RoHS, OIL RES I, CE, UV-resistent Kabelisolierung H07BQ-F Brandschutzklasse IEC 60332-1-2
Heitronic 3pol. Kabelverbinder	CE Siegel, Schutzgrad IP 68
Gummistecker IP54	CE Siegel, Schutzgrad IP 54
Brennenstuhl Personenschutz-Stecker	Richtlinie 2014/35/EU und 2014/35/EU erfüllt Nachweise durch HD 639 S1:2002+A1:03+A2:10, EN 61543:1995/A2:2006, EN50581:2921, DIN VDE 0620-1:2016 und 0620-2-1:2016

Michael Sebel, Geschäftsführung
erneuer.bar services GmbH



Konformitätserklärung zu JA Solar JAM60S10-340/MR 340 Wp

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ CERTIFICADO ◆ CERTIFICAT



Attestation of Conformity

No. N8A 072092 0296 Rev. 18

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

Product:

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

This Attestation of Conformity is issued on a voluntary basis according to the Low Voltage Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits. It confirms that the listed equipment complies with the principal protection requirements of the directive and is based on the technical specifications applicable at the time of issuance. It refers only to the particular sample submitted for testing and certification. For details see: www.tuvsud.com/ps-cert

Test report no.: 704061604115-45

Date, 2020-09-29

(Zhulin Zhang)

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After preparation of the necessary technical documentation as well as the EU declaration of conformity the required CE marking can be affixed on the product. The declaration of conformity is issued under the sole responsibility of the manufacturer. Other relevant EU-directives have to be observed.

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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 420 in steps of 5;
JAM60D10-xxx/MB/1500V, JAM60D10-xxx/MB, xxx= 320 to 350 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;
JAM72D30-xxx/MB/1500V, JAM72D30-xxx/MB, xxx= 505 to 545 in steps of 5;
JAM66D30-xxx/MB/1500V, JAM66D30-xxx/MB, xxx= 465 to 500 in steps of 5;
JAM60D30-xxx/MB/1500V, JAM60D30-xxx/MB, xxx= 435 to 455 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;
JAM72 S01-xxx/SC/1000V, xxx= 320 to 365 in steps of 5;
JAM60 S01-xxx/SC/1000V, xxx= 265 to 305 in steps of 5;
JAM72 S01-xxx/PR/1000V, xxx= 345 to 390 in steps of 5;
JAM60 S01-xxx/PR/1000V, xxx= 285 to 325 in steps of 5;
JAM72 S01-xxx/MR/1000V, xxx= 365 to 385 in steps of 5;
JAM60 S01-xxx/MR/1000V, xxx= 305 to 320 in steps of 5;
JAM72 S03-xxx/PR/1000V, xxx= 360 to 395 in steps of 5;
JAM60 S03-xxx/PR/1000V, xxx= 300 to 330 in steps of 5;
JAM72 S09-xxx/PR/1000V, xxx= 370 to 405 in steps of 5;
JAM60 S09-xxx/PR/1000V, xxx= 310 to 335 in steps of 5;
JAM72 S10-xxx/PR/1000V, xxx= 380 to 410 in steps of 5;
JAM60 S10-xxx/PR/1000V, xxx= 315 to 345 in steps of 5;
JAM72 S10-xxx/MR/1000V, xxx= 390 to 420 in steps of 5;
JAM60 S10-xxx/MR/1000V, xxx= 325 to 345 in steps of 5;
JAM78 S10-xxx/MR/1000V, xxx= 435 to 455 in steps of 5;
JAM66 S10-xxx/MR/1000V, xxx= 345 to 380 in steps of 5;
JAM72 S09-xxx/BP/1000V, xxx= 375 to 385 in steps of 5;
JAM60 S09-xxx/BP/1000V, xxx= 315 to 320 in steps of 5;
JAM72 S10-xxx/BP/1000V, xxx= 385 to 400 in steps of 5;
JAM60 S10-xxx/BP/1000V, xxx= 320 to 330 in steps of 5;
JAM72 S02-xxx/PR/1000V, xxx= 345 to 390 in steps of 5;
JAM60 S02-xxx/PR/1000V, xxx= 285 to 325 in steps of 5;
JAM72 S02-xxx/SC/1000V, xxx= 320 to 365 in steps of 5;
JAM60 S02-xxx/SC/1000V, xxx= 265 to 305 in steps of 5;
JAM72 S02-xxx/MR/1000V, xxx= 365 to 385 in steps of 5;
JAM60 S02-xxx/MR/1000V, xxx= 305 to 320 in steps of 5;
JAM72 S08-xxx/PR/1000V, xxx= 360 to 395 in steps of 5;
JAM60 S08-xxx/PR/1000V, xxx= 300 to 330 in steps of 5;
JAM72 S12-xxx/PR/1000V, xxx= 365 to 385 in steps of 5;
JAM60 S12-xxx/PR/1000V, xxx= 305 to 330 in steps of 5;
JAM72 S17-xxx/PR/1000V, xxx= 380 to 390 in steps of 5;
JAM60 S17-xxx/PR/1000V, xxx= 315 to 325 in steps of 5;
JAM72 S17-xxx/MR/1000V, xxx= 390 to 395 in steps of 5;
JAM60 S17-xxx/MR/1000V, xxx= 315 to 335 in steps of 5;

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Model(s):

JAM72 S10-xxx/MB/1000V, xxx= 395 to 415 in steps of 5;
JAM60 S10-xxx/MB/1000V, xxx= 330 to 345 in steps of 5;
JAM72 S20-xxx/MR/1000V, xxx= 430 to 470 in steps of 5;
JAM60 S20-xxx/MR/1000V, xxx= 355 to 390 in steps of 5;
JAM72 S30-xxx/MR/1000V, xxx= 510 to 550 in steps of 5;
JAM66 S30-xxx/MR/1000V, xxx= 470 to 505 in steps of 5;
JAM60 S30-xxx/MR/1000V, xxx= 435 to 460 in steps of 5;
JAM60 S21-xxx/MR/1000V, xxx= 355 to 375 in steps of 5;

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

JAM72 S01-xxx/SC, xxx= 320 to 365 in steps of 5;
JAM60 S01-xxx/SC, xxx= 265 to 305 in steps of 5;
JAM60 S01-xxx/PR, xxx= 285 to 325 in steps of 5;
JAM72 S01-xxx/MR, xxx= 365 to 385 in steps of 5;
JAM60 S01-xxx/MR, xxx= 305 to 320 in steps of 5;
JAM72 S03-xxx/PR, xxx= 360 to 395 in steps of 5;
JAM60 S03-xxx/PR, xxx= 300 to 330 in steps of 5;
JAM72 S09-xxx/PR, xxx= 370 to 405 in steps of 5;
JAM60 S09-xxx/PR, xxx= 310 to 335 in steps of 5;
JAM72 S10-xxx/PR, xxx= 380 to 410 in steps of 5;
JAM60 S10-xxx/PR, xxx= 315 to 345 in steps of 5;
JAM72 S10-xxx/MR, xxx= 390 to 420 in steps of 5;
JAM60 S10-xxx/MR, xxx= 325 to 345 in steps of 5;
JAM78 S10-xxx/MR, xxx= 435 to 455 in steps of 5;
JAM66 S10-xxx/MR, xxx= 345 to 380 in steps of 5;
JAM72 S09-xxx/BP, xxx= 375 to 385 in steps of 5;
JAM60 S09-xxx/BP, xxx= 315 to 320 in steps of 5;
JAM72 S10-xxx/BP, xxx= 385 to 400 in steps of 5;
JAM60 S10-xxx/BP, xxx= 320 to 330 in steps of 5;
JAM72 S02-xxx/PR, xxx= 345 to 390 in steps of 5;
JAM60 S02-xxx/PR, xxx= 285 to 325 in steps of 5;
JAM72 S02-xxx/SC, xxx= 320 to 365 in steps of 5;
JAM60 S02-xxx/SC, xxx= 265 to 305 in steps of 5;
JAM72 S02-xxx/MR, xxx= 365 to 385 in steps of 5;
JAM60 S02-xxx/MR, xxx= 305 to 320 in steps of 5;
JAM72 S08-xxx/PR, xxx= 360 to 395 in steps of 5;
JAM60 S08-xxx/PR, xxx= 300 to 330 in steps of 5;
JAM72 S12-xxx/PR, xxx= 365 to 385 in steps of 5;
JAM60 S12-xxx/PR, xxx= 305 to 330 in steps of 5;
JAM72 S17-xxx/PR, xxx= 380 to 390 in steps of 5;
JAM60 S17-xxx/PR, xxx= 315 to 325 in steps of 5;
JAM72 S17-xxx/MR, xxx= 390 to 395 in steps of 5;
JAM60 S17-xxx/MR, xxx= 315 to 335 in steps of 5;
JAM72 S10-xxx/MB, xxx= 395 to 415 in steps of 5;
JAM60 S10-xxx/MB, xxx= 330 to 345 in steps of 5;
JAM72 S20-xxx/MR, xxx= 430 to 470 in steps of 5;
JAM60 S20-xxx/MR, xxx= 355 to 390 in steps of 5;
JAM78 S10-xxx/MR-J, xxx= 435 to 455 in steps of 5;
JAM72 S30-xxx/MR, xxx= 510 to 550 in steps of 5;
JAM66 S30-xxx/MR, xxx= 470 to 505 in steps of 5;
JAM60 S30-xxx/MR, xxx= 435 to 460 in steps of 5;
JAM60 S21-xxx/MR, xxx= 355 to 375 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;
JAM72 S01-xxx/SC/1500V, xxx= 320 to 365 in steps of 5;
JAM60 S01-xxx/SC/1500V, xxx= 265 to 305 in steps of 5;
JAM72 S01-xxx/PR, xxx= 345 to 390 in steps of 5;

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JAM60 S01-xxx/PR/1500V, xxx= 285 to 325 in steps of 5;
JAM72 S01-xxx/MR/1500V, xxx= 365 to 385 in steps of 5;
JAM60 S01-xxx/MR/1500V, xxx= 305 to 320 in steps of 5;
JAM72 S03-xxx/PR/1500V, xxx= 360 to 395 in steps of 5;
JAM60 S03-xxx/PR/1500V, xxx= 300 to 330 in steps of 5;
JAM72 S09-xxx/PR/1500V, xxx= 370 to 405 in steps of 5;
JAM60 S09-xxx/PR/1500V, xxx= 310 to 335 in steps of 5;
JAM72 S10-xxx/PR/1500V, xxx= 380 to 410 in steps of 5;
JAM60 S10-xxx/PR/1500V, xxx= 315 to 345 in steps of 5;
JAM72 S10-xxx/MR/1500V, xxx= 390 to 420 in steps of 5;
JAM60 S10-xxx/MR/1500V, xxx= 325 to 345 in steps of 5;
JAM78 S10-xxx/MR/1500V, xxx= 435 to 455 in steps of 5;
JAM66 S10-xxx/MR/1500V, xxx= 345 to 380 in steps of 5;
JAM72 S09-xxx/BP/1500V, xxx= 375 to 385 in steps of 5;
JAM60 S09-xxx/BP/1500V, xxx= 315 to 320 in steps of 5;
JAM72 S10-xxx/BP/1500V, xxx= 385 to 400 in steps of 5;
JAM60 S10-xxx/BP/1500V, xxx= 320 to 330 in steps of 5;
JAM72 S02-xxx/PR/1500V, xxx= 345 to 390 in steps of 5;
JAM60 S02-xxx/PR/1500V, xxx= 285 to 325 in steps of 5;
JAM72 S02-xxx/SC/1500V, xxx= 320 to 365 in steps of 5;
JAM60 S02-xxx/SC/1500V, xxx= 265 to 305 in steps of 5;
JAM72 S02-xxx/MR/1500V, xxx= 365 to 385 in steps of 5;
JAM60 S02-xxx/MR/1500V, xxx= 305 to 320 in steps of 5;
JAM72 S08-xxx/PR/1500V, xxx= 360 to 395 in steps of 5;
JAM60 S08-xxx/PR/1500V, xxx= 300 to 330 in steps of 5;
JAM72 S12-xxx/PR/1500V, xxx= 365 to 385 in steps of 5;
JAM60 S12-xxx/PR/1500V, xxx= 305 to 330 in steps of 5;
JAM72 S17-xxx/PR/1500V, xxx= 380 to 390 in steps of 5;
JAM60 S17-xxx/PR/1500V, xxx= 315 to 325 in steps of 5;
JAM72 S17-xxx/MR/1500V, xxx= 390 to 395 in steps of 5;
JAM60 S17-xxx/MR/1500V, xxx= 315 to 335 in steps of 5;
JAM72 S10-xxx/MB/1500V, xxx= 395 to 415 in steps of 5;
JAM60 S10-xxx/MB/1500V, xxx= 330 to 345 in steps of 5;
JAM72 S20-xxx/MR/1500V, xxx= 430 to 470 in steps of 5;
JAM60 S20-xxx/MR/1500V, xxx= 355 to 390 in steps of 5;
JAM72 S30-xxx/MR/1500V, xxx= 510 to 550 in steps of 5;
JAM66 S30-xxx/MR/1500V, xxx= 470 to 505 in steps of 5;
JAM60 S30-xxx/MR/1500V, xxx= 435 to 460 in steps of 5;
JAM60 S21-xxx/MR/1500V, xxx= 355 to 375 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.

Tested according to:

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

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Konformitätserklärung zu Enphase IQ7+ / IQ7A



Declaration of Conformity

Certificate Number: DOC_20171211_09

Report Reference: P20171211_09

Issue Date: 13 February 2018

Issued to: **Enphase Energy Inc.**
1420 N. McDowell Blvd. Petaluma, CA 94954-6515

**This is to certify that
representative samples of**

Utility-interconnected photovoltaic inverters with advanced grid functions

Models:
IQ7PLUS-72-X-Y-Z
IQ7-60-X-Y-Z

Have been investigated by Enphase Energy NZ Ltd., IANZ accreditation no.: 1273 in accordance with the Standard(s) indicated.

Standard(s) VDE-AR-N 4105:2011-08– Power generation systems connected to the low-voltage distribution network.

See Enphase Energy NZ Ltd test report P20171211_09 for full test data.

Additional Information:

Model nomenclature details:
X = 2 or 5 (2 = Multicontact PV connector, 5 = Amphenol PV connector)
Y = blank or ACM (X marking not required)
Z = blank or any letter for country of intended installation (eg: US for North America, INT for International)

This document certifies that representative samples of the products specified in this certificate were tested and comply with VDE-AR-N 4105:2011-08.

Prepared by:

Robin Kidson
Enphase Energy

Signed on behalf of Enphase Energy, Inc.

13 February 2018
Christchurch, New Zealand

Manuel Shimasaki
Director, Global Certification



Declaration of Conformity

Certificate Number: DOC_20171211_09
Report Reference: P20171211_09
Issue Date: 13 February 2018

Inverter Ratings - Output	Model: IQ7PLUS-72-X-Y-Z
Nominal output voltage (V AC)	230 V
Normal output frequency (Hz)	50 Hz
Rated output current (A AC)	1.26 A
Rated output (VA)	290 VA (290W)
Maximum air ambient	65 °C

Inverter Ratings - Output	Model: IQ7-60-X-Y-Z
Nominal output voltage (V AC)	230 V
Normal output frequency (Hz)	50 Hz
Rated output current (A AC)	1.04 A
Rated output (VA)	240 VA (240 W)
Maximum air ambient	65 °C



Signed on behalf of Enphase Energy, Inc.

13 February 2018
Christchurch, New Zealand

Manuel Shimasaki
Director, Global Certification



Using Enphase Energy Microinverters with PV Modules greater than 350 Watts

Date: 18/6/2020

For Australia and New Zealand, AS/NZS 5033:2014, Clause 4.3.12 provides general requirements applicable to PV Microinverter systems. Clause d). sets a "limit" to the size of a PV Module that can be connected to one input of a micro inverter,

"(d) Each input shall be limited to 350W max PV power at STC, at a maximum input voltage no greater than ELV."

It can be appreciated that when this standard was written in 2014, the largest PV Modules available were around 250 Watts however future provision was made for PV Modules with greater than 350W. AS/NZS5033:2014 Clause 4.3.12 Note 1 says,

"1. For micro inverters that exceed the limits of this Clause, the normal requirements of this Standard apply."

The normal requirements of AS/NZS 5033:2014 requires DC disconnection as per Clause 4.3.5 – Disconnecting devices. As an Enphase Energy Microinverter DC connection is classed as ELV (< 120VDC) then AS/NZS5033:2014 Clause 4.3.5.2 applies for disconnection,

"ELV Plug connections for interruption under load may also be used in ELV situations if the equivalent level of safety and performance can be assured"

The shutdown procedure for an Enphase Energy Microinverter system is the same as any PV Inverter system where it should first be isolated from the AC mains via the ¹PV "Main Switch (Inverter supply)".

Unlike most PV DC string inverters, all Enphase micro inverters have an isolating transformer between DC and AC circuits to provide electrical isolation under all operating conditions. Once the AC mains has been removed, all connected Enphase Microinverters in the PV Array are instantly de-energised forcing the DC ports open circuit. No current then flows from the PV module through the DC connectors to the micro inverter.

Once AC shutdown has been done, the installer can use a DC clamp meter to confirm that no current is present on DC cabling and then safely disconnect the DC connector(s). Complete galvanic separation as required by AS/NZS5033:2014 4.3.5 is then achieved.

For more technical information on Enphase Energy micro inverters please go to our website.

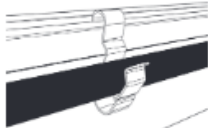
¹ AS/NZS4777.1:2016 Clause 3.4.3 Isolation switches

Datenblatt zu Enphase Q-Kabel und Abschlusskappe

Q-KABEL – TECHNISCHE DATEN	
Spannung	600V (Steckerbelegung bis 250 VAC)
Temperaturbereich	90° C nass/trocken
UV-Beständigkeit	EN ISO 492-2
Schutzart	IEC 60529 IP67
Konformität	RoHS, OIL RES I, CE, UV-resistent
Kabelisolierung	H07BQ-F
Brandschutzklasse	IEC 60332-1-2

Q-KABEL-MODELLE / ARTIKELNUMMERN					
Artikelnummer	Spannung	Ampacity-Bewertung	Abstand zwischen den Steckverbindern	Ausrichtung PV-Modul	Anzahl Steckverbinder pro Schachtel
Q-25-10-240 (Einphasig)	250 VAC	25 A	1.3 m	Hochformat	240
Q-25-17-240 (Einphasig)	250 VAC	25 A	2.0 m	Querformat (60 Zellen)	240
Q-25-20-200 (Einphasig)	250 VAC	25 A	2.3 m	Querformat (72 Zellen)	200
Q-25-10-3P-240 (Dreiphasig)	250 VAC	25 A	1.3 m	Hochformat	200
Q-25-17-3P-240 (Dreiphasig)	250 VAC	25 A	2.0 m	Querformat (60 Zellen)	160
Q-25-20-3P-200 (Dreiphasig)	250 VAC	25 A	2.3 m	Querformat (72 Zellen)	160

ZUBEHÖR ENPHASE Q-KABEL		
Produkt	Artikelnummer	Beschreibung
Q-Kabel ohne Steckverbindungen (Einphasig)	Q-25-RAW-300	300 Meter Verlängerungsleitung ohne Steckverbinder
Q-Kabel ohne Steckverbindungen (Dreiphasig)	Q-25-RAW-3P-300	300 Meter Verlängerungsleitung ohne Steckverbinder
Selbstkonfektionierbarer Steckverbinder (Stecker) Einphasig	Q-CONN-R-10M	Selbstkonfektionierbarer Stecker (1P)
Selbstkonfektionierbarer Steckverbinder (Stecker) Dreiphasig	Q-CONN-R-3P-10M	Selbstkonfektionierbarer Stecker (3P)
Selbstkonfektionierbarer Steckverbinder (Buchse) Einphasig	Q-CONN-R-10F	Selbstkonfektionierbare Buchse (1P)
Selbstkonfektionierbarer Steckverbinder (Buchse) Dreiphasig	Q-CONN-R-3P-10F	Selbstkonfektionierbare Buchse (3P)
Kabelschelle	Q-CLIP-100	Zur Befestigung der Kabel auf den Pritschen des Montagesystems
Trennvorrichtung	Q-DISC-10	Trennvorrichtung für Q-Kabel-Steckverbinder (DC und AC)
Q-Kabel-Verschlusskappe (Buchse)	Q-SEAL-10	Eine Verschlusskappe für jede nicht benutzte Steckverbindung erforderlich
Abschluss (Einphasig)	Q-TERM-R-10	Abschluss für Kabelenden
Abschluss (Dreiphasig)	Q-TERM-R-3P-10	Abschluss für Kabelenden
DC-Ersatzadapter MC4	Q-DCC-2-INT	DC-Adapter MC4 (Höchstspannung 100 V DC)

	ABSCHLUSS Ein Abschluss pro AC-Kreis erforderlich. Erhältlich in 10er-Packungen. (Q-TERM-R-10)		WASSERDICHTES VERSCHLUSSKAPPEN Eine Verschlusskappe für jede nicht benutzte Steckverbindung erforderlich. Erhältlich in 10er-Packungen. (Q-SEAL-10)
	TRENNVORRICHTUNG Eine pro Installation erforderlich. Erhältlich in 10er-Packungen. Einphasig (Q-DISC-10) Dreiphasig (Q-DISC-3P-10)		KABELSCHELLE Zur direkten Befestigung des Enphase-Kabels auf der Pritsche des Montagesystems. Erhältlich in 100er-Packungen. (Q-CLIP-100)

Datenblatt zu Heitronic 3pol Kabelverbinder

Art.Nr. 45608

Kabelverbinder

Hersteller: HEITRONIC

Allgemeine Produktinformationen

- 1x Eingang und 1x Ausgang
- IP68 für Wassertiefe bis max. 1m
- schnelles Verbinden von Versorgungskabeln
- verwendbar für Spannungen bis 450V
- Kabeldurchführungen von max. 7-13mm
- auch geeignet für Erdkabel NYY-J bis 3G2,5 mm²
- flammwidrig
- beständig gegen Frost und die meisten in den Böden vorkommenden Säuren
- für den Außenbereich

EAN-Code:	4002940456080
Zolltarifnummer:	85472000
Ursprungsland:	CHINA
Material:	Kunststoff, Kupfer, Silikon
Farbe:	schwarz
CE:	ja
Schutzgrad IP:	68



Abmessung Produkt in mm

Länge:	100.00
Breite:	23.50
Höhe:	26.00

Elektrische Daten

Lichttechnische Daten

Verpackung

Abmessung Einzelkarton in mm	
Breite:	130
Tiefe:	140
Höhe:	30
Nettogewicht in kg:	0.038
Verpackungseinheit:	48

Abmessung VE-Karton in mm	
Breite:	685
Tiefe:	250
Höhe:	210
Bruttogewicht in kg:	250



Alle Daten wurden mit größter Sorgfalt erstellt. Eine Haftung oder Gewährleistung für die Richtigkeit, Vollständigkeit und Aktualität ist jedoch ausgeschlossen.

WEEE-Reg.-Nr.DE 166 599 10

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Allmending 29 | D-75203 Königsbach-Stein
Tel. +49 (0) 7232 4005-0 | Fax +49 (0) 7232 4005-119

info@vollmer-gmbh.de | www.HEITRONIC.de

Zum Gummistecker IP54, kein Datenblatt vorhanden



Konformitätserklärung zu Brennenstuhl Personenschutz-Stecker / PRCD, IP54



EU-Konformitätserklärung EU Declaration of conformity Déclaration UE de conformité Declaración UE de Conformidad Deklaracja zgodności UE

Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller.
This declaration of conformity is issued under the sole responsibility of the manufacturer.
La présente déclaration de conformité est établie sous la seule responsabilité du fabricant.
La presente declaración de conformidad se expide bajo la exclusiva responsabilidad del fabricante.
Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta.

Wir, die Firma
We the company
Nous, la société
Nosotros, la Compañía
Nasza firma

Hugo Brennenstuhl GmbH & Co Kommanditgesellschaft
Seestr. 1-3
72074 Tübingen-Pfrondorf,

erklären, dass unsere Produkte
declare that our products
déclarons que nos produits
declaramos que nuestros productos
oświadczają, że nasze artykuły

Personenschutz Adapter BDI-A 2 30 DE *Circuit breaker adapter BDI-A 2 30 DE*

die Bestimmungen der folgenden Richtlinie erfüllen:
are in conformity with the European Directive:
sont conformes aux directives européennes suivantes :
son conformes a las directivas Europeas:
spełniają wymagania następujących europejskich dyrektyw:

2014/35/EU, 2011/65/EU und/and 2014/30/EU

Die Übereinstimmung der bezeichneten Produkte mit den Bestimmungen der Richtlinie wird durch die Einhaltung folgender Normen nachgewiesen:
Compliance with the standards listed below proves the conformity of the designated products with the provisions of the above-mentioned EC Directive:
La conformité des produits mentionnés au regard des exigences des directives européennes est établie par le respect des normes suivantes:
La conformidad de los abajo mencionados productos prueban la conformidad de los productos designados con el cumplimiento de las normas EC arriba mencionadas:
Spełnienie następujących standardów potwierdza zgodność artykułów z postanowieniami poniższych dyrektyw UE:

HD 639 S1:2002+A1:03+A2:10
EN 61543:1995/A2:2006
EN 50581:2012
DIN VDE 0620-1:2016
DIN VDE 0620-2-1:2016

Wolfram Bauer

Dipl. Ing. Wolfram Bauer / Technical director

Tübingen, den 13.06.2018

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Registergericht Stuttgart, HRA 380573
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Registergericht Stuttgart, HIRB 380156
Dietmar Kaiser; Geschäftsführer: Hugo Brennenstuhl,
Dr. Wolfgang Dehler-Brennenstuhl,
Dipl.-Kfm. Sebastian Brennenstuhl