



**BUREAU
VERITAS**

Certificate of compliance

Applicant: Bernt Lorentz GmbH
Siebenstücken 24
24558 Henstedt-Ulzburg
Germany

Product: Solar Pump System Controller

Model: PSk3-5; PSk3-7; PSk3-9; PSk3-15

Ratings:	PSk3-5	PSk3-7	PSk3-9	PSk3-15
Input DC voltage range [V]:	400 - 850	400 - 850	400 - 850	400 - 850
Input DC current [A]:	10	14	19	27
Input AC voltage range [V]:	380 - 480	380 - 480	380 - 480	380 - 480
Input AC rated voltage [V]:	400	400	400	400
Input AC current [A]:	13,5	17,5	22	30
Output AC voltage [V]:	380 / 400 / 415	380 / 400 / 415	380 / 400 / 415	380 / 400 / 415
Output AC current [A]:	9,5	13	17	24,5
Output frequency [Hz]:	0 - 60	0 - 60	0 - 60	0 - 60
Output power [kVA]:	6,1	8,3	11,2	16

The certificate refers to the stated model(s) which passed the tests according to the applicable standard(s):

IEC 62109-1:2010, EN 62109-1:2010, DIN EN 62109-1:2011

Safety of power converters for use in photovoltaic power systems – Part 1: General requirements

IEC 62109-2:2011, EN 62109-2:2011, DIN EN 62109-2:2012

Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters

The safety concept of an aforementioned representative product corresponds at the time of issue of this certificate to the valid safety specifications for the specified use in accordance with the applied rules and standards.

Report number: 20TH0278-IEC62109-1_0 **Certification Program:** NSOP-0032-DEU-ZE-V01
20TH0278-IEC62109-2_0

Certificate number: U21-0271 **Date of issue:** 2021-03-23

Certification body



Thomas Lammel



Certification body Bureau Veritas Consumer Products Services Germany GmbH accredited according to DIN EN ISO/IEC 17065

A partial representation of the certificate requires the written approval of Bureau Veritas Consumer Products Services Germany GmbH



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Output frequency [Hz]:	0 - 60	0 - 60	0 - 60	0 - 60
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The certificate refers to the stated model(s) which passed the tests according to the applicable standard(s):

IEC 61800-5-1:2007-07 + Amd. 1:2016-08; DIN EN 61800-5-1:2017-11; EN 61800-5-1:2007 + A1:2017
VDE 0160-105-1:2017-11

Adjustable speed electrical power drive systems – Part 5-1: Safety requirements – Electrical, thermal and energy

The safety concept of an aforementioned representative product corresponds at the time of issue of this certificate to the valid safety specifications for the specified use in accordance with the applied rules and standards.

Report number: 20TH0278-IEC61800-5-1_0 **Certification Program:** NSOP-0032-DEU-ZE-V01
Certificate number: U21-0298 **Date of issue:** 2021-04-06

Certification body

Thomas Lammel



Certification body Bureau Veritas Consumer Products Services Germany GmbH accredited according to DIN EN ISO/IEC 17065

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