

#### Certificate registration number: G3.2307.575.2.A6

Certificate holder: Hangzhou Sunrise Technology Co., Ltd

Product designation: DJGZ23-II, Hardware version JZ06DX V05, Firmware version ESG3SC-V003213

#### Certification date: July 5<sup>th</sup> 2023

This certificate indicates the above-mentioned product successfully completed certification testing with regards to the G3-Alliance reference specification 06/2021. The optional feature coherent mode of the G3-PLC protocol is also covered by this certification.

The certificate applies to certification profile CENELEC A and the device was configured as a PAN-Coordinator.

Test cases have been performed as described in the test report referred to below. This certificate is granted on account of tests conducted by TÜV Rheinland in Yokohama, Japan in May-June 2023. The results and remarks can be found in the complete test report.

Applied tests	Performed by	Document evidence
Conformance, interoperability and performance testing according to the test specification referenced by the test report	TÜV Rheinland Japan	JP23BDRA 001

The device tested is a G3-PLC CENELEC A 3-phase data concentrator. The product is equipped with the G3-PLC certified platform ESPLC-CEN-HYB with certificate no. G3.2205.518.1.A6. Modifications of the platform that are not related to the G3-PLC protocol have been done by the platform manufacturer. The Protocol Implementation Conformance Statement in the Annex includes the PICS related to performance and is an integral part of this certificate. This certificate is valid from July 5<sup>th</sup> 2023.

The certificate is only applicable to the product described above and permits the use of the G3-PLC<sup>™</sup> logo as laid down in the G3-PLC logo license agreement.

This certificate does not imply assessment of the production. This certificate shall not be defined, or used as a guarantee covering quality of a product which includes G3-PLC. The liability of the Alliance and the test laboratory or any of her representatives is excluded for any damages or losses of the certified company.

Paris, July 5th 2023

For the G3-Alliance:

Marc Delandre Chairman

Madeleine Francillard Chair Certification Program



Authenticity of this certificate can be verified at https://g3-plc.com/g3-plc-certification/certified-products/ Page 1 of 6

## Annex 1: Protocol Implementation Conformance Statement (PICS)

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### Feature implementation statement

Name	Value	Description
BAND_PLAN	CENELEC A	Indicates whether the band-plan supported by the device
BAND_PLAN_RF	N/A	Indicates whether the RF band plan(s) supported by the device
FEATURE_HYBRID_RF	FALSE	Indicates whether Hybrid PLC&RF feature is supported
FEATURE_PAN_ COORDINATOR	TRUE	Indicates whether the device is a PAN-Coordinator (true) or a normal device (false)
FEATURE_COHERENT_ MODULATION	TRUE	Indicates whether coherent modulation is supported
FEATURE_EAP_SERVER		Indicates whether an EAP-PASK server is implemented by the DUT
	TRUE	Apply only if FEATURE_PAN_COORDINATOR = true
FEATURE_D8PSK_ MODULATION	TRUE	Indicates whether D8PSK modulation is supported
FEATURE_ROUTING	TRUE	Indicates whether the routing is implemented by the IUT
FEATURE_SECURITY	F1	Indicates whether the security implemented by the device. Possible values are: F1, F2
FEATURE_ACTIVE_SCAN	TRUE	Indicates whether the active scan process is done by the IUT after power-up
FEATURE_PREAMBLE_ COEXISTENCE_MECHANISM	FALSE	Indicates whether the preamble- based coexistence mechanism is used by the IUT

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## Annex 2: Protocol Implementation Conformance Statement (PICS)

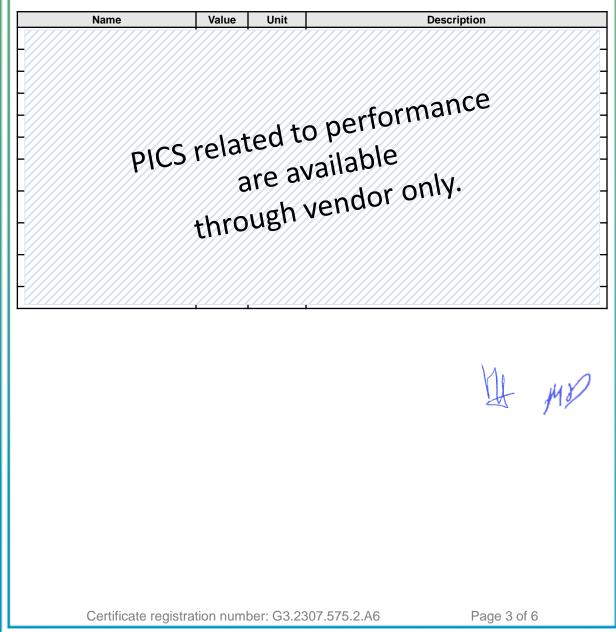
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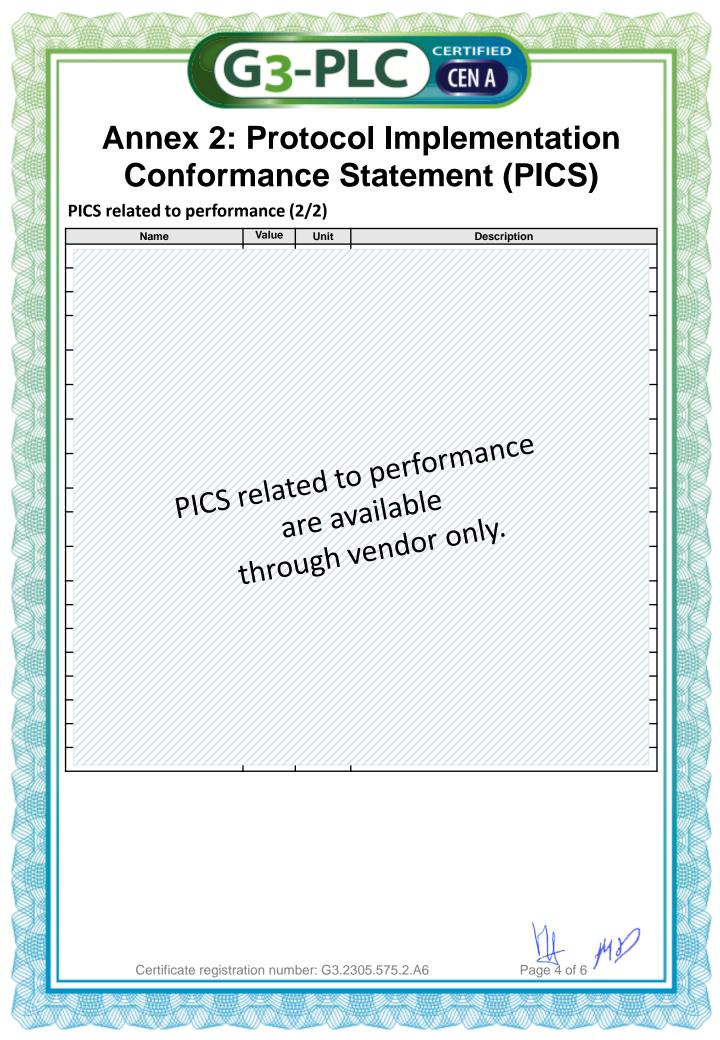
### PICS related to performance (1/2)

The device tested is a G3-PLC CENELEC A 3-phase data concentrator communicating on 3 phases.

Testing was performed on phase 1.

Operating voltage applied for certification testing was 3AC380V (3x220V L-N) / 50Hz.





# Annex 3:

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Copy of test report cover sheet

Test report no.: Prüfbericht-Nr.:	JP23BDRA 001	<b>Order No.:</b> Auftragsnr.:	150276709 20	Page 1 of 55 Seite 1 von 55	
Client reference no.: Kunden-Referenz-Nr.:	DJGZ23-II	Order date: Auftragsdatum:	2023-03-29		
Client: Auftraggeber:	Hangzhou Sunrise Technolo No.1099, Cangxing Road, C P. R. China		nang District, Han	gzhou, Zhejiang	
<b>Test item:</b> Prüfgegenstand:	Data Concentrator (CENELEC A)				
Identification / Type no.: Bezeichnung / Typ-Nr.:	DJGZ23-II				
Order content: Auftrags-Inhalt:	G3 Certification Test				
Test specification Prüfgrundlage:	G3-Alliance - Conformance <sup>-</sup> G3-Alliance - 1to1-PHY-Inter G3-Alliance - Performance T G3-Certification Test Proced	roperability-Tests-S est Suite Specifica	pecification-v0.14		
Date of sample receipt: Wareneingangsdatum:	2023-05-17				
Test sample no: Prüfmuster-Nr.:	A003477199-003				
Testing period: Prüfzeitraum:	2023-05-22 - 2023-06-21				
Place of testing: Ort der Prüfung:	4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224- 0021, Japan				
Testing laboratory: Prüflaboratorium:	TÜV Rheinland Japan Ltd.				
Test result*: Prüfergebnis*:	Pass	e	1	9	
<b>tested by:</b> geprüft von:	/	authorized by: genehmigt von:	4	Gaite	
Date: 2023-06-22	Martin Zietz	<b>Issue date:</b> 2023 Ausstellungsdatu	-06-22	Shuji Saito	
Position / Stellung: Other:	Tester	Position / Stellur	ıg:	Reviewer	
Sonstiges:					
Condition of the test item Zustand des Prüfgegensta			te and undamaged andig und unbesch		
is not permitted to Dieser Prüfbericht bezieht s		test report does not nd darf ohne Genehm	entitle to carry an igung der Prüfstelle	enter this test report y test mark. nicht auszugsweise	
	, Global Technology Assessment Cen	ter 4-25-2 Kita-Yamata, • Web: www.tuv.com/	Tsuzuki-ku Yokohama	a 224-0021, Japan	