

Component Certificate

Certificate

CC-240403 Rev.1

Issue Date

2024-10-25

Expiration date

2029-10-24



Approved for issue on behalf
of DEWI-OCC GmbH

Guido Bröring
Vice Head of Certification Body
Bremen, 2024-10-25

This Certificate is issued to

SIEMENS GAMESA RENEWABLE ENERGY INNOVATION & TECHNOLOGY S.L.
Avenida Ciudad de la innovación, 2
Sarriguren, 31621 Spain

for the Component

**Power Plant Controller (PPC) and
Standalone – Turbine Data Access (S-TDA)**

This Certificate confirms the Component compliance with the following Standards and Guidelines, considering the Remarks and Restrictions / Deviations stated in the annex of this Certificate:

- **37-GC-P0853** Global Certification Policy, Evaluation of Grid Code Compliance, Issue 9.0, 26-01-2021

On the basis of:

- **RfG (EU)2016/631:** COMMISSION REGULATION (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators, 2016-04
- **EqC:** Conditions and procedures for the use of certificates in the connection of power-generating modules to power systems, Revision 1.2, 2021-04 *Warunki i procedury wykorzystania certyfikatów w procesie przyłączenia modułów wytwarzania energii do sieci elektroenergetycznych. Rev. 1.2, 2021-04*
- **RoGA:** General operational requirements resulting from Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for grid connection of generators, 2018-12 *Wymogi ogólnego stosowania wynikające z Rozporządzenia Komisji (UE) 2016/631 z dnia 14 kwietnia 2016 r. ustanawiającego kodeks sieci dotyczący wymogów w zakresie przyłączenia jednostek wytwórczych do sieci (NC RfG). 2018-12*

This Certificate is based on the reference documents and specifications listed in the subsequent pages. The specifications are listed in the annex of this Certificate. This Certificate is valid subject to the prescribed maintenance.

Changes in system design, units and/or components, or manufacturer's quality system are to be approved by the Certification Body. Without approval, this Certificate loses its validity.

Component Type Power Plant Controller (PPC)	PPM types B, C and D
Manufacturer	Siemens Gamesa Renewable Energy Innovation & Technology S.L.
Rated frequency	50 Hz

Remarks

The evaluation results for Component Certification based on the Standards and Guidelines listed on page 1 are summed in this Certificate.

The results and details of the named evaluation are based on the Evaluation Report listed on page 2 of this Certificate annex.

The technical specifications of Components and software versions are listed in subsequent pages and can be found within the listed Evaluation Report.

This Certificate is based on the following reference documents:

Evaluation Report

DEWI-OCC GmbH: Evaluation Report
"EVALUATION REPORT",
Doc. Nr. R15424630-27 Rev. 0,
44 pages, 2024-09-29

Restrictions / Deviations: None

Requirements

EqC V1.2 chapter	RoGA Article no.	Requirement	Chapter in evaluation report	Compliance
7	13.2 a), b), f)	Limited Frequency Sensitive Mode - Overfrequency (LFSM-O)	3.2	T
7	14.2 b)	Remote active power control	3.3	T
7	15.2 c), i	Limited Frequency Sensitive Mode - Underfrequency (LFSM-U)	3.4	T
9	13.6 and 14.2.a	PGM type A and B: Active power control	N/A	to be evaluated on project level
9	13.1.a.i	PGM types A, B, C and D: Frequency Range	N/A	to be evaluated on project level
9	13.1.b	PGM types A, B, C and D: ROCOF	N/A	to be evaluated on project level

Legend:**T:** compliance by test.**N/A:** Not Applicable.

Technical data of the PPC

General	
Component type	Power Plant Controller (PPC) for wind turbines
Manufacturer	Siemens Gamesa Renewable Energy Innovation & Technology S.L.
Type	PPC
Supported wind turbine types at the issuance (non-exhaustive list)	PPC: <ul style="list-style-type: none"> • SG 5.X • DD PPC + S-TDA: <ul style="list-style-type: none"> • SG 2.X • SG 3.X • SG 4.X
Location of tested PPC	Lyngby (Denmark) at the Technical University of Denmark
Tested PPC serial number	CAN ICES-3(A)/NMB-3(A)
PPC software version	MySite360 2024_001 or later*
SCADA	
Manufacturer	SCADA International
Type	PPC Test System
Control Unit (PPC Server)	
Manufacturer	Hewlett Packard Enterprise
Type	TPS-W016

* In case of newer software releases, UL must be notified regularly. UL will perform a full evaluation of any new software version. If any impact to the certified functions occurs, UL will revise the component certificate. Otherwise, newer software versions will be considered valid.

Simulation model

Name of the simulation model	PPC_v6_1_STDAr8_1_c.pfd PPC_V6B1_cap.dll STDA_r08_Parameters_00_win64.dll
Md5 checksum of the simulation model	575A9A084B2E3E42B4029f90CB4BAD13 (PPC_v6_1_STDAr8_1_c.pfd) 9B86687729CF4872F6C3D265A2CD4DC1 (PPC_V6B1_cap.dll) 8462339B0CE8F2543215076CE600874C (STDA_r08_Parameters_00_win64.dll)
Model description	11000009352-5 Rev. 5
Model Environment	DlgSILENT PowerFactory 2021 SP5

Schematic representation of the PPC