

Certificate

No. **ESY 086470 0290 Rev. 00**

Holder of Certificate: **Ginlong Technologies Co., Ltd.**

No.57 Jintong Road
Binhai Industrial Park, Xiangshan
315712 Ningbo, Zhejiang
PEOPLE'S REPUBLIC OF CHINA

Product:

PV inverter
Grid-connected PV inverter

Model(s):

**S6-GC3P25K03-NV-ND, S6-GC3P30K03-NV-ND,
S6-GC3P33K03-NV-ND, S6-GC3P36K03-NV-ND.**

Parameters:

See next pages.

Applicable standards:

EN 50549-1:2019
EN 50549-10:2022
RfG:2016
NC RfG:2018
PTPIREE:2021

This Certificate confirms the compliance with the above listed standards on a voluntary basis. It refers only to the sample submitted to TÜV SÜD Product Service GmbH and does not certify the quality or safety of the serial products. It was issued according to TÜV SÜD Product Service certification program Photovoltaics and Grid Integration. For details see: www.tuvsud.com/ps-cert

Test report no.:

7040925142157-00

Date,

2025-12-30

(Kai Zhao)

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Technical Certifier (Kai Zhao) appointed by Certification Body TÜV SÜD Product Service GmbH performed assessment of the products listed in this certification in the place: Ridlerstraße 65, 80339 Munich, Germany.

Test requirement	The certification complies with the requirements of the following documents for PPM installations of Type A EN 50549-1:2019 Requirements for generating plants to be connected in parallel with distribution networks - Part 1: Connection to a LV distribution network - Generating plants up to and including Type B EN 50549-10:2022 Requirements for generating plants to be connected in parallel with distribution networks - Part 10: Tests for conformity assessment of generating units RfG:2016 Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for the connection of generating units to the Network (OJ EU L 112/1 of 27.4.2016) NC RfG:2018 General applicability requirements resulting under EU commission regulation 2016/631 of 14 April 2016 establishing a network code on requirements for the connection of generating units to the grid (NC RfG-2018) - approved by the Decision of the President of the Energy Regulatory Office DRE.WOSE.7128.550.2.2018.ZJ dated 2 January 2019. PTPIREE:2021 Conditions and procedures for the use of certificates in the process of connecting generation modules to the power grid V1.2
Designation and type of certification programme	1(a) according to EN ISO/IEC 17067 Based on Photovoltaics and Grid Integration Certification Program (Revision 7, Dated 30 Aug 2022) for Poland Grid Code
Manufacturer & Address	Ginlong Technologies Co., Ltd. No.57 Jintong Road, Binhai Industrial Park, Xiangshan, 315712 Ningbo, Zhejiang, PEOPLE'S REPUBLIC OF CHINA
Software version	A3
Expiry date of certificate	2030-12-22

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Parameters:

Model	S6-GC3P25K03-NV-ND	S6-GC3P30K03-NV-ND
PV input ratings		
Max. input voltage [V _{DC}]	1100	
MPPT voltage range [V _{DC}]	180, ..., 1000	
Max. input current [A _{DC}]	42/42/42	
Isc PV (absolute maximum) [A _{DC}]	52.5/52.5/52.5	
AC output ratings		
Nominal voltage [V _{AC}]	3/N/PE, 230/400	
Nominal frequency [Hz]	50	
Nominal output power [W]	25000	30000
Max. output active power [W]	25000	30000
Max. apparent output power [VA]	25000	30000
Max. output current [A _{AC}]	36.1	43.3
Power factor range	0.8 (leading), ..., 1, ..., 0.8 (lagging)	

Model	S6-GC3P33K03-NV-ND	S6-GC3P36K03-NV-ND
PV input ratings		
Max. input voltage [V _{DC}]	1100	
MPPT voltage range [V _{DC}]	180, ..., 1000	
Max. input current [A _{DC}]	42/42/42	
Isc PV (absolute maximum)	52.5/52.5/52.5	
AC output ratings		
Nominal voltage [V _{AC}]	3/N/PE, 230/400	
Nominal frequency [Hz]	50	
Nominal output power [W]	33000	36000
Max. output active power [W]	33000	36000
Max. apparent output power [VA]	33000	36000
Max. output current [A _{AC}]	47.6	52.0
Power factor range	0.8 (leading), ..., 1, ..., 0.8 (lagging)	

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Scope and function assessment based on the rules for the application of equipment certificates for Power Park Modules (PPMs), as specified in the PTPIREE document.

Parameter	RfG: 2016	NC RfG: 2018	Type A	Type B	Type C	Type D	Result
Frequency range	13.1 (a)	13.1 (a) (i)	Y	N/A	N/A	N/A	Pass
Rate of change of frequency withstand capability (RoCoF) df/dt	13.1 (b)	13.1 (b)	Y	N/A	N/A	N/A	Pass
Power generation module operation mode in which the generated active power decreases in response to an increase in the system frequency above a specified value (LFSM-O)	13.2 (*)	13.2 (a), (b), (f)	Y	N/A	N/A	N/A	Pass
Admissible active power reduction with decreasing frequency	13.3, 13.4 & 13.5	13.4	Y	N/A	N/A	N/A	Pass
Remote ceasing active power	13.6	13.6	Y	N/A	N/A	N/A	Pass
Automatic connection to the network	13.7 & 14.4	13.7 & 14.4 (a)	Y	N/A	N/A	N/A	Pass
Remote control of active power	14.2 (a) (b)	14.2 (b)	N/A	N/A	N/A	N/A	N/A
Ability to withstand voltage dips for connections below 110 kV	14.3	14.3 (a) (i), (b)	N/A	N/A	N/A	N/A	N/A
Automatic power adjustment & manual power adjustment	15.2 (a) (b)	15.2 (a) (b)	N/A	N/A	N/A	N/A	N/A
Power generation module operation mode in which the generated active power increases as a result of the system frequency falling below a specified value (LFSM-U)	15.2 (c)	15.2 (c) (i)	N/A	N/A	N/A	N/A	N/A
Static parameters of the FSM mode	15.2 (d) (i)	15.2 (d) (i)	N/A	N/A	N/A	N/A	N/A
Voltage conditions	16.2 (a)	16.2 (a) (i)	N/A	N/A	N/A	N/A	N/A
Ability to withstand voltage dips for connections above 110 kV	16.3	16.3 (a) (i), (c)	N/A	N/A	N/A	N/A	N/A
Maintaining voltage through reactive power - Capabilities	20.2 (a) & 21.3 (a), (b), (c), (d)	20.2 (a) & 21.3 (b) (i), (c) (i) (iv), (d) (iv) (vi)	N/A	N/A	N/A	N/A	N/A
Fast fault current contribution, symmetrical and asymmetrical faults	20.2 (b), (c) 21.3 (e)	20.2 (b), (c) 21.3 (e)	N/A	N/A	N/A	N/A	N/A
Recovery of active power after short circuit	20.3	20.3 (a)	N/A	N/A	N/A	N/A	N/A

(*) Article 13.2.(b) only applies to Type A PPMs in accordance with RfG:2016.