

Certificate of Conformity

No. ESY 086470 0233 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-GC3P15K03-LV-ND, S6-GC3P20K03-LV-ND,
S6-GC3P25K03-NV-ND, S6-GC3P30K03-NV-ND,
S6-GC3P33K03-NV-ND, S6-GC3P36K03-NV-ND**

Parameters: See next pages.

Applicable standards: TOR Erzeuger Typ A Version 1.2:2022
OVE-Richtlinie R 25:2020

This Certificate of Conformity 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

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(Zhengdong Ma)

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Model	S6-GC3P15K03-LV-ND	S6-GC3P20K03-LV-ND
PV input parameters:		
Max. input voltage	DC 1100 V	
Mppt voltage range	DC 180, ..., 1000 V	
Max. input current	DC 3*40 A	
Isc PV (absolute maximum)	DC 3*50 A	
AC output parameters:		
Max. (Rated) apparent output Power	15000 VA	20000 VA
Nominal output voltage	3/PE ~ 230 V	
Nominal Frequency	50 Hz	
Max. (Rated) output current	AC 37.7 A	AC 50.2 A
Power factor range	-0.8, ..., 1, ..., +0.8	

Model	S6-GC3P25K03-NV-ND	S6-GC3P30K03-NV-ND
PV input parameters:		
Max. input voltage	DC 1100 V	
Mppt voltage range	DC 180, ..., 1000 V	
Max. input current	DC 3*40 A	
Isc PV (absolute maximum)	DC 3*50 A	
AC output parameters:		
Max. (Rated) apparent output Power	25000 VA	30000 VA
Nominal output voltage	3/N/PE ~ 230/400 V	
Nominal Frequency	50 Hz	
Max. (Rated) output current	AC 36.1 A	AC 43.3 A
Power factor range	-0.8, ..., 1, ..., +0.8	

Model	S6-GC3P33K03-NV-ND	S6-GC3P36K03-NV-ND
PV input parameters:		
Max. input voltage	DC 1100 V	
Mppt voltage range	DC 180, ..., 1000 V	
Max. input current	DC 3*40 A	
Isc PV (absolute maximum)	DC 3*50 A	
AC output parameters:		
Max. (Rated) apparent output Power	33000 VA	36000 VA
Nominal output voltage	3/N/PE ~ 230/400 V	
Nominal Frequency	50 Hz	
Max. (Rated) output current	AC 47.6 A	AC 52.0 A
Power factor range	-0.8, ..., 1, ..., +0.8	

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Default settings				
Requirements for power generator	Value default			
1. Reactive power of inverter				
1a. Fixed displacement factor $\cos \varphi_{\text{fixed}}$	1			
1b. Displacement factor/active power characteristic $\cos \varphi$ (P)	setpoint	$\cos \varphi$	P/PEmax	
	a	1	0	
	b	1	0.5	
	c	0.9 underexcited	1	
1c. Reactive power voltage/voltage characteristic Q (U)	setpoint	U/Un	Q/Pmax	
	1	0.92 Un	0.436	$\cos \varphi = 0.9$
	2	0.96 Un	0	$\cos \varphi = 1$
	3	1.05 Un	0	$\cos \varphi = 1$
	4	1.08 Un	-0.436	$\cos \varphi = 0.9$
	Time constant of a first-order filter (PT1 behaviour)			Q(U):3.3s
Intentional delay time			0 s	
1d. Fixed reactive power Qfixed	Q = 43.60%			
1e. Fixed Power factor $\cos \varphi_{\text{fixed}}$	$\cos \varphi = 0.4$			
2. Standard settings for active power control				
2a. Active power reduction at overfrequency LFSM-O	Start of power reduction from		Droop S2	
	50.2 Hz		5 % (40%PM/Hz)	
	Intentional delay time		0 s	
2b. Voltage related active power control P(U)	Standard values apply for setting the interpolation points of the characteristic curve:		U/Un	P/Pn
	Setpoint 1		50% Un	100%
	Setpoint 2		70% Un	100%
	Setpoint 3		110% Un	100%
	Setpoint 4		112% Un	0%
	Time constant of a first-order filter (PT1 behaviour)		5 s	
	Intentional delay time		0 s	
3. Default settings for FRT capability				
FRT capability for undervoltage setpoint	0.8 Un			
4. Default settings for the connection conditions				
Setting values for connection conditions	Voltage		0.85 p.u. $\leq U \leq$ 1.09 p.u.	
	Frequency		47.5 Hz $< f <$ 50.10 Hz	
Settings for the minimum waiting time for connection to the grid	For automatic or operation-related connection		60 s	
	In case of reconnection after interface protection:		300 s	
Maximum gradient of the increase in active power after interface protection	10 % Pmax/min			
5. Default settings for interface protection				
Default settings for the grid decoupling protection	Function		Setting values for protection relays	
	Overvoltage protection $U_{\text{eff}} >>$		1.15 Un	0.1s
	Overvoltage protection $U_{\text{eff}} >$ 10-min average value		1.10 Un	0.1s
	Undervoltage protection $U_{\text{eff}} <$		0.80 Un	1.5 s
	Undervoltage protection $U_{\text{eff}} <<$		0.25 Un	0.5 s
	Overfrequency $f >$		51.5 Hz	0.1 s
	Underfrequency $f <$		47.5 Hz	0.1 s
	Grid failure		-	≤ 5.0 s
Password protection for settings:				
Password protection used for unauthorized change by user and not disclosed to the user.				