

Certificate

No. ESY 086470 0284 Rev. 00

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

No.57 Jintong Road
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PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
Hybrid Inverter

Model(s): **S6-EH3P80K10-NV-ND-H, S6-EH3P100K10-NV-ND-H,
S6-EH3P125K10-NV-ND-H, S6-EH3P80K10-NV-YD-H,
S6-EH3P100K10-NV-YD-H, S6-EH3P125K10-NV-YD-H**

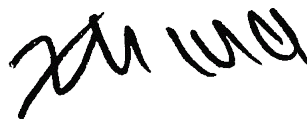
Parameters: See next pages.

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

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.: 704092514273-00

Date, 2025-11-26



(Zhengdong Ma)

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Parameters:

Model	S6-EH3P80K10-NV-ND-H/ S6-EH3P80K10-NV-YD-H	S6-EH3P100K10-NV-ND-H/ S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-ND-H/ S6-EH3P125K10-NV-YD-H
PV terminal parameters			
Maximum PV voltage	DC 1000 V		
MPPT voltage range	DC 150 ,..., 950 V		
Maximum input current	DC 10 x 42 A		
Isc PV	DC 10 x 60 A		
Battery input/output parameters			
Battery voltage range	DC 300 ,..., 950 V		
Maximum charge current	DC 100 x 2 A		
Maximum discharge current	DC 100 x 2 A		
Battery type	Li-ion		
Grid output terminal parameters			
Rated output voltage	3/N/PE AC 230/400 V		
Rated output frequency	50 Hz		
Max.(Rated) output apparent power	80000 VA	100000 VA	125000 VA
Maximum continuous output current	AC 115.5 A	AC 144.3 A	AC 180.4 A
Power factor range	-0.8 ,..., 1 ,..., 0.8		

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	0.9underexcited	1	
1c. Reactive power voltage/voltage characteristic Q (U)	setpoint	U/Un	Q/Pmax	
	a	0.92 Un(211.6V)	0.436	$\cos \varphi = 0.9$
	b	0.96 Un(220.8V)	0	$\cos \varphi = 1$
	c	1.05 Un(241.5V)	0	$\cos \varphi = 1$
	d	1.08 Un(248.4V)	-0.436	$\cos \varphi = 0.9$
	Time constant of a first-order filter (PT1 behaviour)		5s	
	Intentional delay time		0 s	
1d. Fixed reactive power Qfixed	Q = 0			
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	

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	Setpoint a	110% Un(253.0V)	100%
	Setpoint b	112% Un(257.6V)	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	$0.85Un(195.5V) \leq U \leq 1.09Un(250.7V)$	
	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 Ueff>>	1.15 Un(264.5V)	0.1s
	Overvoltage protection Ueff> 10-min average value	1.11 Un(255.3V)	0.1s
	Undervoltage protection Ueff<	0.80 Un(184.0V)	1.5 s
	Undervoltage protection Ueff<<	0.25 Un(57.5V)	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.			