

TEST REPORT

Manufacturer: Ginlong Technologies Co., Ltd.

Address: No.57 jintong Road, Seafront(Binhai)Industrial park, Xiangshan Demonstration Industrial Estate, Xiangshan, Ningbo, Zhejiang, 315712, P.R. China

Product: Grid-connected PV Inverter

Model: S6-GR1P2.5K; S6-GR1P3K; S6-GR1P3.6K; S6-GR1P4K; S6-GR1P4.6K; S6-GR1P5K; S6-GR1P6K

Use in accordance with regulations:

Technical Guidance for Customer Export Limiting Schemes G100 for photovoltaic systems with a single-phase parallel coupling via an inverter in the public mains supply.

Applied rules and standards :

The result according to G100 engineering recommendation.

The safety concept of an aforementioned representative product complies at the time of issue of this certificate of valid safety specifications for the specified use in accordance with G100 recommendations.Compliant with BSEN 61000-3-2

Certificate Number: ERD-CR202108010

Date: 2021-08-10

Manufacture Stamp

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Date and place Ningbo 2021-08-10

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System Connecton Diagr



Setting Protection Test

Requirement	Result	Note
The settings is password protected, and cannot be changed by anyone other than got written agreement of the DNO;	Pass	

Fail Safe Test

Method: Set 0% export limit, implement the test before start or in running

Criteria: Fall time is less than 5s, the inverter's output active power is less than set limit. After fail safe test, disconnect AC, the reconnect time delay is fault reconnect time.

No	Componen t	Test	Active Power	Response Time	Fall Time	Reconnec t time	Pass /Fail	Comments
1	Remove	Remove CT	NA	NA	NA	NA	NA	Fail safe control function integrated inside EPM.
СТ	Disconnect CT Cable	NA	NA	NA	NA	NA	Fail safe control function integrated inside EPM.	



r		1	r					
2	Power Monitoring Unit(PMU)	Remove Power supply to PMU	NA	NA	NA	NA	NA	NA
3	Control Unit(CU)	Remove Power supply to any CU	NA	NA	NA	NA	NA	NA.
4	Generator Interface units(GIU)	Remove Power supply to all GIUs	NA	NA	NA	NA	NA	NA
5	Demand control unit(DCU)	Remove Power supply to all DCU	NA	NA	NA	NA	NA	NA
6	Network hub/switch es	Remove Power supply	NA	NA	NA	NA	NA	NA
7	PMU →CU communic ation cable	Unplug cable	NA	NA	NA	NA	NA	Same control unit of the EPM
8	CU →GIU communic ation cable	Unplug cable(repeat where additional GIU units)	NA	NA	NA	NA	NA	Fail safe control function integrated inside EPM.
9	GIU→ communic ation cable	Unplug cable(repeat where additional GIU units)	NA	NA	NA	NA	NA	Fail safe control function integrated inside inverter.
10	$\begin{array}{c} CU\\ \rightarrow DCU\\ communic\\ ation cable \end{array}$	Unplug cable(repeat where additional DCU units)	NA	NA	NA	NA	NA	NA
11	DCU→ Load communic ation cable	Unplug cable(repeat where additional DCU units)	NA	NA	NA	NA	NA	NA



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12	Controlled Load(s)	Turn off load (e.g. active thermostat)	NA	NA	NA	NA	NA	NA
NOTE: "Fail safe tests are not required at installations where all of the Generating Units are Type Tested SSEGs , with a Power Station Capacity of not more than 7.36kW per phase (i.e.32A per phase at 230V) and an Export Capacity of not more than 3.68kW per phase (i.e.16A per phase at 230V)."								

Power Limit Test

Method: Set export limit, implement the test before start, then start the inverter.

Criteria: fall time is less than 5s, the inverter's export active power is less than limit power.

0%expoi	rt limit [%	[Inverter Rating]							
	Input	Input supply [% Inv	verter Rating]						
Load Export/Time		25%	50%	75%	100%				
Load	0%	-570W/1.1S	-920W/1.1S	-1260W/0.93S	-1458W/1.2S				
[%	25%	NA	-930W/0.98S	-1240W/0.84S	-1475W/1.2S				
Inverter	50%	NA	NA	-1270W/0.88S	-1437W/0.84S				
Rating]	75%	NA	NA	NA	-1466W/0.85S				
25%exp	ort limit [% Inverter Rating]							
	Input	Input supply [% Inv	verter Rating]						
Load Ex	port/Time	25%	50%	75%	100%				
Load	0%	NA	-892W/1.1S	-1215W/0.90S	-1493W/1.1S				
[%	25%	NA	NA	-1244W/0.89S	-1475W/1.1S				
Inverter	50%	NA	NA	NA	-1477W/0.94S				
Rating]	75%	NA	NA	NA	NA				
50%expo	ort limit [% Inverter Rating]							
	Input	Input supply [% Inv	verter Rating]						
Load Ex	port/Time	25%	50%	75%	100%				
Load	0%	NA	NA	-1160W/0.97S	-1498W/0.89S				
[%	25%	NA	NA	NA	-1505W/0.94S				
Inverter	50%	NA	NA	NA	NA				
Rating]	75%	NA	NA	NA	NA				
75%expo	ort limit ['	% Inverter Rating]							
	Input	Input supply [% Inverter Rating]							
Load Export/Time		25%	50%	75%	100%				
Load	0%	NA	NA	NA	-1479W/1.0S				
[%	25%	NA	NA	NA	NA				
Inverter	50%	NA	NA	NA	NA				
Rating]	75%	NA	NA	NA	NA				

Comments

The test result is based on S6-GR1P3.6K-M. All the series of inverters control command are the same. So the test result can cover all series.

Note: normally, this inverter does not actively output power to the distribution network.