

**CERTIFICATION OF CONFORMITY****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:** Automatic disconnection device between a generator and the public low-voltage grid**Model:** S6-GR1P0.7K-M; S6-GR1P1K-M; S6-GR1P1.5K-M; S6-GR1P2K-M; S6-GR1P2.5K-M; S6-GR1P3K-M; S6-GR1P3.6K-M**Use in accordance with regulations:**

Automatic disconnection device with single-phase mains surveillance in accordance with EN 50438:2013 and DTIS-230206-BRL-2018 for photovoltaic systems with a single-phase parallel coupling via an inverter in the public mains supply. The automatic disconnection device is an integral part of the aforementioned inverter. This serves as a replacement for the disconnection device with isolating function that can access the distribution network provider at any time.

**Applied rules and standards:**

The result according to EN 50438:2013 and EN 50549-1: 2019.

The safety concept of an aforementioned representative product corresponds at the time of issue of this certificate of valid safety specifications for the specified use in accordance with regulations.

**Certificate Number:** ERD-COC202108001**Manufacture Stamp****Date and place**Ningbo  
2021-08-05锦浪科技股份有限公司  
GINLONG TECHNOLOGIES CO.,LTD.

## Power quality

Harmonic current emissions								
EVS-EN 61000-3-12 Limit (%)								
Harmonic	2nd	3rd	5th	7th	9th	11th	13th	15th ≤ n ≤ 39th
Limit	8.0	21.6	10.7	7.2	3.8	3.1	2.0	/
Test value	0.49	1.50	1.47	1.11	0.78	0.64	0.49	<limits BS EN

  

Voltage fluctuation and flicker				
Maximum permissible voltage fluctuation (expressed as percentage of nominal voltage at rated poHer) and flicker (standard EVS-EN 61000-3-11)				
	Starting	Stopping	Running (at rated poHer)	
Limit	3.3 %	3.3 %	Pst = 1.0	Plt = 0.65
Test value	<1%	<1%	0.11	0.12

  

Power factor			
EN 50549-1 limit	+ 0.95 -0.95 at three voltage levels		
Test level (AC voltage)	210 V	230 V	250 V
Test value(at rated power)	0.9995	0.9995	0.9995

## Under / Over frequency tests

Parameter	Under frequency		Over frequency	
	Frequency	Time	Frequency	Time
Protection limit	47.0 Hz	20s	52.0 Hz	0.5s
Actual setting	47.0 Hz	20s	52.0 Hz	0.5s
Trip value (test result)	46.98 Hz	20.04s	52.01 Hz	0.52s

## Under / Over voltage tests (single stage protection)

Parameter	Under voltage		Over voltage	
	Voltage	Time	Voltage	Time
Protection limit	230V-10%	0.5 s	230V+10%	0.5 s
Actual setting	207V	0.5 s	253V	0.5 s
Trip value (test result)	207.1V	0.54s	253.4V	0.54s

## Fault level contribution

Short-circuit current at micro-generator terminals, 30A
Short-circuit applied to micro-generator at normal running condition 0 -2 s

## Comments

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