



## DECLARATION OF EN50438 for Ireland

Manufacturer	Name	NINGBO GINLONG TECHNOLOGIES CO., LTD.
	Address	NO. 57 JINTONG ROAD, BINHAI INDUSTRIAL PARK, XIANGSHAN, NINGBO, ZHEJIANG, 315712, CHINA
Product	Product Name	GRID-TIE PV INVERTER
	Model	SINGLE PHASE INVERTER: Solis-3P5K-4G/ Solis-3P6K-4G/ Solis-3P8K-4G/Solis-3P9K-4G/ Solis-3P10K-4G/ Solis-3P12K-4G/ Solis-3P15K-4G/ Solis-3P17K-4G/ Solis-3P20K-4G
Applicable Standard	EN50438 : 2007 for Ireland	

The product stated above have been achieved and processed to the fullness examination according to EN50438 : 2007 for Ireland.

Manufacture Stamp

Date and place of issue  
Ningbo  
2018-9-12

宁波锦浪新能源科技有限公司  
NINGBO GINLONG TECHNOLOGIES CO., LTD.

Zhang Kun

Information:

All modification to should be confirmed by Ginlong, otherwise this declaration will no longer valid.

## Test result

### Test details

Name and address of test house	Ginlong technical Reserch and develop laboratory
Telephone number	(+86) 574 6578 1607
Date of test	12. Sep.2014

### Under-/Overfrequency tests

Parameter	Underfrequency		Overfrequency	
	Frequency	Time	Frequency	Time
Protection limit	48 Hz	0.5 s	50.5 Hz	0.5 s
Actual setting	48.1 Hz	0.4 s	50.4 Hz	0.4 s
Trip value (test result)	48.1 Hz	0.40s	50.41 Hz	0.41 s

### Under-/Overvoltage tests (single-stage protection)

Parameter	Undervoltage		Overvoltage	
	Voltage	Time	Voltage	Time
Protection limit	207 V	0.5 s	253 V	0.5 s
Actual setting	207 V	0.4 s	253 V	0.4 s
Trip value (test result)	207.4 V	0.41 s	253.6 V	0.39 s

### LoM test

ROCOF (df/dt)	Neg. gradient		Pos. gradient	
Parameter	Min.	Time	Max	Time
Protection limit	-0.4 Hz/s	0.5 s	+0.4 Hz/s	0.5 s
Actual setting	-0.4 Hz/s	0.4 s	+0.4 Hz/s	0.4 s
Trip value (test result)	-0.4 Hz/s	0.38 s	+0.4 Hz/s	0.42 s