



## DECLARATION OF EN50438 for Irelands

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: RAI-3K-48ES-5G
Applicable Standard	EN50438 : 2013 for Irelands	

### 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	27. April.2019

#### 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 Hz	0.3 s	50.5 Hz	0.3 s
Trip value (test result)	48.04 Hz	0.345 s	50.46 Hz	0.336 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	0.5 s

Trip value (test result)	207.6 V	0.445 s	253.5 V	0.541 s
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**LoM test**

Method			
Output power lever	Min.	Medium	Max
Trip setting clearance time	1s	1 s	1s
Trip value clearance time	1.1s	1.1 s	1.2s

The product stated above have been achieved and processed to the fullness examination according to EN50438 : 2013 for Irelands.

Manufacture Stamp

Date and place of issue  
Ningbo  
2019-04-27

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

*Zhangkun*

Information:

All modification to should be confirmed by Ginlong, otherwise this declaration will no longer valid.