

DECLARATION OF EN50438 for Netherland

| | | |
|---------------------|-------------------------------|---|
| 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-1P2.5K-4G,Solis-1P3K-4G,Solis-1P3.6K-4G,Solis-1P4K-4G,Solis-1P4.6K-4G,Solis-1P5K-4G Solis-1P6K-4G |
| Applicable Standard | EN50438 : 2013 for Netherland | |

Test result

Test details

| | |
|--------------------------------|---|
| Name and address of test house | Ginlong technical Research and develop laboratory |
| Telephone number | (+86) 574 6578 1607 |
| Date of test | 2018.04.21 |

Under-/Overfrequency tests

| Parameter | Under frequency | | Over frequency | |
|--------------------------|-----------------|--------|----------------|--------|
| | Frequency | Time | Frequency | Time |
| Protection limit | 47.5 Hz | 0.2 s | 51.5 Hz | 0.2 s |
| Actual setting | 47.5 Hz | 0.1 s | 51.5 Hz | 0.1 s |
| Trip value (test result) | 47.0 Hz | 0.98 s | 52.0 Hz | 0.11 s |

Under-/Overvoltage tests (single-stage protection)

| Parameter | Under voltage | | Over voltage | |
|------------------|---------------|-------|--------------|-------|
| | Voltage | Time | Voltage | Time |
| Protection limit | 184 V | 0.2 s | 275 V | 0.2 s |

| | | | | |
|--------------------------|---------|--------|---------|--------|
| Actual setting | 184 V | 0.1 s | 275 V | 0.1 s |
| Trip value (test result) | 183.5 V | 0.11 s | 275.5 V | 0.12 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 | 0.41 s |

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

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

Date and place of issue
Ningbo
2014-5-28

Zhangkun

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Information:

All modification to should be confirmed by Ginlong, otherwise this declaration will no longer valid.