

## EN50549-1:2019 declaration of conformance

### Type test detail

**Manufacturer:** Shenzhen SOFAR SOLAR Co., Ltd.

**Address:** 401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community, XinAn Street, BaoAn District, Shenzhen, China.



### Product: Hybrid inverter

**Model:** HYD 3000-ES, HYD 3600-ES, HYD 4000-ES, HYD 5000-ES, HYD 6000-ES

### Product: Solar Grid-tied inverter

**Model:** SOFAR 1100TL, SOFAR 1600TL, SOFAR 2200TL, SOFAR 2700TL, SOFAR 3000TL

SOFAR 3000TLM, SOFAR 3680TLM, SOFAR 4000TLM, SOFAR 4600TLM, SOFAR 5000TLM, SOFAR 6000TLM, SOFAR 7.5KTLM

SOFAR 10000TL-Series, SOFAR 15000TL-Series, SOFAR 17000TL-Series, SOFAR 20000TL-Series

SOFAR 30000TL, SOFAR 33000TL, SOFAR 40000TL-Series

SOFAR 3.3KTL-X, SOFAR 4.4KTL-X, SOFAR 5KTL-X, SOFAR 5.5KTL-X, SOFAR 6.6KTL-X, SOFAR 8.8KTL-X, SOFAR 11KTL-X, SOFAR 12KTL-X

SOFAR 6KTLM-G2, SOFAR 5KTLM-G2, SOFAR 4.6KTLM-G2, SOFAR 4KTLM-G2, SOFAR 3.6KTLM-G2, SOFAR 3KTLM-G2,

SOFAR 20000TL-G2, SOFAR 25000TL-G2, SOFAR 30000TL-G2, SOFAR 33000TL-G2,



SOFAR 50000TL, SOFAR 60000TL, SOFAR 70000TL-HV

**AC-coupled storage Converter**

ME 3000SP

**Applied rules and standards :**

EN50549-1:2019, Requirements for generating plants to be connected in parallel with distribution networks

Compliant with COMMISSION REGULATION (EU)2016/631(NC RfG).

Approved By	Checked By	Prepared By	Date of Test
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## Setting Protection Test

Requirement	Result
4.3.2 Interface switch	NA
4.4.2 Operating frequency range	PASS
4.4.3 Minimal requirement for active power delivery at underfrequency	PASS
4.4.4 Continuous operating voltage range	PASS
4.5.2 Rate of change of frequency(ROCOF)immunity	PASS
4.5.3.2 Generating plant with non-synchronous generating technology	NA
4.5.3.3 Generating plant with synchronous generating technology	/
4.5.4 Over-voltage ride through(OVRT)	NA
4.6.1 Power response to overfrequency	PASS
4.6.2 Power response to underfrequency	NA
4.7.2.2 Capabilities	PASS
4.7.2.3 Control modes	PASS
4.7.2.3.2 Setpoint control modes	PASS
4.7.2.3.3 Voltage related control modes	PASS
4.7.2.3.4 Power related control mode	PASS
4.7.4.2.2 Zero current mode for converter connected generating technology	NA
4.9.2 Requirements on voltage and frequency protection	PASS
4.10.2 Automatic reconnection after tripping	PASS
4.10.3 Starting to generate electrical power	PASS
4.11.1 Ceasing active power	NA
4.11.2 Reduction of active power on set point	NA
4.12 Remote information exchange	NA

## Comments

The test result is based on the maximum power of each Series. All the series of inverters electrical character are the same. So the test result can cover all series.