

# CERTIFICATE

## of conformity

This certifies that below described products of the applicant:

### **Shenzhen SOFARSOLAR Co., Ltd.**

11/F., Gaoxinqi Technology Building, No. 67 Area, Xingdong  
Community, Xin' an Sub-district, Bao' an District, Shenzhen City,  
China

comply to the essential requirements of the following standards:

**Product(s):** Solar Grid-tied Inverter

**Model type(s):** SOFAR 20KTLX-G3, SOFAR 25KTLX-G3, SOFAR 30KTLX-G3,  
SOFAR 30KTLX-G3-A, SOFAR 33KTLX-G3, SOFAR 36KTLX-G3,  
SOFAR 40KTLX-G3, SOFAR 45KTLX-G3, SOFAR 50KTLX-G3,  
SOFAR 40KTLX-G3-HV, SOFAR 50KTLX-G3-HV

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this document may use it in connection with the related test report(s)

|                               |                                    |
|-------------------------------|------------------------------------|
| Certification program:        | P33-VA-01 Rev. 02 / 04.20          |
| Certification fundamental(s): | IEC 62109-1:2010; IEC 62109-2:2011 |
| Registered no.:               | 44 799 24 406749 - 322             |
| Report no.:                   | 492011831.005                      |
| File no.:                     | PVP07186/24B-01                    |

A blue ink signature, likely of a representative of TÜV NORD CERT GmbH.

TÜV NORD CERT GmbH  
Certification Body  
Balance of System (BOS) for Photovoltaics

Essen, 2024-09-12

TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

[www.tuev-nord-cert.de](http://www.tuev-nord-cert.de)

[prodcert@tuev-nord.de](mailto:prodcert@tuev-nord.de)

Please also pay attention to the information stated overleaf.

# ANNEX

Annex 1, Page 1 of 2

to Certificate registration no. 44 780 24 406749 - 322

Description of product(s):

| Model or Type designation                | SOFAR<br>20KTLX<br>-G3 | SOFAR<br>25KTLX<br>-G3 | SOFAR<br>30KTLX<br>-G3 | SOFAR<br>30KTLX<br>-G3-A | SOFAR<br>33KTLX<br>-G3 | SOFAR<br>36KTLX<br>-G3 |
|------------------------------------------|------------------------|------------------------|------------------------|--------------------------|------------------------|------------------------|
| PV Input Parameters                      |                        |                        |                        |                          |                        |                        |
| V <sub>max</sub> PV [V d.c.]..... :      | 1100                   |                        |                        |                          |                        |                        |
| MPPT Voltage Range [V d.c.] ..... :      | 180-1000               |                        |                        |                          |                        |                        |
| Max. PV Input Current [A d.c.]..... :    | 3*40                   |                        |                        |                          |                        |                        |
| DC Short-circuit Current [A d.c.]..... : | 3*50                   |                        |                        |                          |                        |                        |
| AC Output Parameters                     |                        |                        |                        |                          |                        |                        |
| Rated Output Voltage [V a.c.]..... :     | 3/N/PE, 380/400        |                        |                        |                          |                        |                        |
| Rated Output Frequency [Hz]..... :       | 50/60                  |                        |                        |                          |                        |                        |
| Rated Output Power [kW]..... :           | 20                     | 25                     | 30                     | 29.9                     | 33                     | 36                     |
| Max. Apparent Output Power [kVA] :       | 22                     | 28                     | 34                     | 29.9                     | 37                     | 40                     |
| Max. Output Current [A a.c.]..... :      | 33.3                   | 42.4                   | 51.5                   | 45.3                     | 56                     | 60.6                   |
| Power Factor cosφ [λ] ..... :            | 1(adjustable +/-0.8)   |                        |                        |                          |                        |                        |
| Others                                   |                        |                        |                        |                          |                        |                        |
| Protective Class..... :                  | Class I                |                        |                        |                          |                        |                        |
| Inverter Topology..... :                 | Non-isolated           |                        |                        |                          |                        |                        |
| Operation Temperature Range ..... :      | -30~60°C               |                        |                        |                          |                        |                        |
| Ingress Protection..... :                | IP65                   |                        |                        |                          |                        |                        |
| Overvoltage Category..... :              | DC II, AC III          |                        |                        |                          |                        |                        |
| Software Version ..... :                 | V000001                |                        |                        |                          |                        |                        |



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# ANNEX

Annex 1, Page 2 of 2

to Certificate registration no. 44 780 24 406749 - 322

| Model or Type designation                | SOFAR<br>40KTLX-<br>G3 | SOFAR<br>45KTLX-<br>G3 | SOFAR<br>50KTLX-<br>G3 | SOFAR<br>40KTLX-<br>G3-HV | SOFAR<br>50KTLX-<br>G3-HV |
|------------------------------------------|------------------------|------------------------|------------------------|---------------------------|---------------------------|
| PV Input Parameters                      |                        |                        |                        |                           |                           |
| V <sub>max</sub> PV [V d.c.]..... :      | 1100                   |                        |                        |                           |                           |
| MPPT Voltage Range [V d.c.]..... :       | 180-1000               |                        |                        |                           |                           |
| Max. PV Input Current [A d.c.]..... :    | 4*40                   |                        |                        | 3*40                      | 4*40                      |
| DC Short-circuit Current [A d.c.]..... : | 4*50                   |                        |                        | 3*50                      | 4*50                      |
| AC Output Parameters                     |                        |                        |                        |                           |                           |
| Rated Output Voltage [V a.c.]..... :     | 3/N/PE, 380/400        |                        |                        | 3/N/PE, 480               |                           |
| Rated Output Frequency [Hz]..... :       | 50/60                  |                        |                        |                           |                           |
| Rated Output Power [kW]..... :           | 40                     | 45                     | 50                     | 40                        | 50                        |
| Max. Apparent Output Power [kVA] :       | 44                     | 50                     | 55                     | 44                        | 55                        |
| Max. Output Current [A a.c.]..... :      | 66.7                   | 75.8                   | 83.3                   | 53.0                      | 66.2                      |
| Power Factor cosφ [λ]..... :             | 1(adjustable +/-0.8)   |                        |                        |                           |                           |
| Others                                   |                        |                        |                        |                           |                           |
| Protective Class..... :                  | Class I                |                        |                        |                           |                           |
| Inverter Topology..... :                 | Non-isolated           |                        |                        |                           |                           |
| Operation Temperature Range..... :       | -30~60°C               |                        |                        |                           |                           |
| Ingress Protection..... :                | IP65                   |                        |                        |                           |                           |
| Overvoltage Category..... :              | DC II, AC III          |                        |                        |                           |                           |
| Software Version ..... :                 | V000001                |                        |                        |                           |                           |

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex of test report.



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