

# SOFAR 25-50KTLX-G3

25 / 30 / 33 / 36 / 40 / 45 / 50 kW

*Three-phase string inverter*



## High yield

- Max. efficiency up to 98.80%
- Prolonged AC overload capability (110%)
- Low start-up voltage, wide MPPT voltage range



## Wide compatibility

- Up to 4 MPPTs with DC overload capability (up to 150%)
- Compatible with 500Wp+ PV modules



## Smart protection

- Type II SPD for both DC and AC side
- I-V curve scanning function

| Model                             | SOFAR<br>25KTLX-G3                                                                                                                                                           | SOFAR<br>30KTLX-G3 | SOFAR<br>33KTLX-G3 | SOFAR<br>36KTLX-G3 | SOFAR<br>40KTLX-G3 | SOFAR<br>45KTLX-G3 | SOFAR<br>50KTLX-G3 |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Input (DC)                        |                                                                                                                                                                              |                    |                    |                    |                    |                    |                    |
| Max. input voltage                | 1100V                                                                                                                                                                        |                    |                    |                    |                    |                    |                    |
| Rated input voltage               | 620V                                                                                                                                                                         |                    |                    |                    |                    |                    |                    |
| Start-up voltage                  | 200V                                                                                                                                                                         |                    |                    |                    |                    |                    |                    |
| MPPT operating voltage range      | 180-1000V                                                                                                                                                                    |                    |                    |                    |                    |                    |                    |
| Number of MPP trackers            | 3                                                                                                                                                                            |                    |                    |                    | 4                  |                    |                    |
| Number of DC inputs               | 2 for each MPPT                                                                                                                                                              |                    |                    |                    |                    |                    |                    |
| Max. input MPPT current           | 3×40A                                                                                                                                                                        |                    |                    |                    | 4×40A              |                    |                    |
| Max. input short circuit current  | 3×50A                                                                                                                                                                        |                    |                    |                    | 4×50A              |                    |                    |
| Output (AC)                       |                                                                                                                                                                              |                    |                    |                    |                    |                    |                    |
| Rated output power                | 25000W                                                                                                                                                                       | 30000W             | 33000W             | 36000W             | 40000W             | 45000W             | 50000W             |
| Max. apparent power               | 28000VA                                                                                                                                                                      | 34000VA            | 37000VA            | 40000VA            | 44000VA            | 50000VA            | 55000VA            |
| Max. output current               | 42.4A                                                                                                                                                                        | 51.5A              | 56A                | 60.6A              | 66.7A              | 75.8A              | 83.3A              |
| Rated output voltage              | 3/N/PE, 230/400Vac                                                                                                                                                           |                    |                    |                    |                    |                    |                    |
| Output voltage range              | 310-480Vac                                                                                                                                                                   |                    |                    |                    |                    |                    |                    |
| Rated output frequency            | 50/60Hz                                                                                                                                                                      |                    |                    |                    |                    |                    |                    |
| Output frequency range            | 45Hz-55Hz / 55Hz-65Hz                                                                                                                                                        |                    |                    |                    |                    |                    |                    |
| Active power adjustable range     | 0-100%                                                                                                                                                                       |                    |                    |                    |                    |                    |                    |
| THDi                              | < 3%                                                                                                                                                                         |                    |                    |                    |                    |                    |                    |
| Power factor                      | 0.8 leading - 0.8 lagging                                                                                                                                                    |                    |                    |                    |                    |                    |                    |
| Efficiency                        |                                                                                                                                                                              |                    |                    |                    |                    |                    |                    |
| Max. efficiency                   | 98.6%                                                                                                                                                                        |                    |                    |                    | 98.8%              |                    |                    |
| European efficiency               | 98.2%                                                                                                                                                                        |                    |                    |                    | 98.2%              |                    |                    |
| Protection                        |                                                                                                                                                                              |                    |                    |                    |                    |                    |                    |
| DC reverse polarity protection    | Yes                                                                                                                                                                          |                    |                    |                    |                    |                    |                    |
| Anti-islanding protection         | Yes                                                                                                                                                                          |                    |                    |                    |                    |                    |                    |
| Leakage current protection        | Yes                                                                                                                                                                          |                    |                    |                    |                    |                    |                    |
| Ground fault monitoring           | Yes                                                                                                                                                                          |                    |                    |                    |                    |                    |                    |
| PV-array string fault monitoring  | Yes                                                                                                                                                                          |                    |                    |                    |                    |                    |                    |
| DC switch                         | Yes                                                                                                                                                                          |                    |                    |                    |                    |                    |                    |
| SPD                               | PV: type II, AC: type II                                                                                                                                                     |                    |                    |                    |                    |                    |                    |
| General Data                      |                                                                                                                                                                              |                    |                    |                    |                    |                    |                    |
| Ambient temperature range         | -30℃ ~ +60℃                                                                                                                                                                  |                    |                    |                    |                    |                    |                    |
| Self-consumption at night         | < 3W                                                                                                                                                                         |                    |                    |                    |                    |                    |                    |
| Topology                          | Transformerless                                                                                                                                                              |                    |                    |                    |                    |                    |                    |
| Degree of protection              | IP65                                                                                                                                                                         |                    |                    |                    |                    |                    |                    |
| Allowable relative humidity range | 0-100%                                                                                                                                                                       |                    |                    |                    |                    |                    |                    |
| Max. operating altitude           | 4000m                                                                                                                                                                        |                    |                    |                    |                    |                    |                    |
| Cooling                           | Smart air cooling                                                                                                                                                            |                    |                    |                    |                    |                    |                    |
| Dimension (W×H×D)                 | 585×480×220 mm                                                                                                                                                               |                    |                    |                    |                    |                    |                    |
| Weight                            | 36 kg                                                                                                                                                                        |                    |                    |                    | 37 kg              |                    |                    |
| Display                           | LCD & Bluetooth + APP                                                                                                                                                        |                    |                    |                    |                    |                    |                    |
| Communication                     | RS485/Wi-Fi                                                                                                                                                                  |                    |                    |                    |                    |                    |                    |
| Standard                          | IEC/EN 61000-6-1/2/3/4, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, G99, VDE-AR-N 4105, VDE V 0126-1-1, EN 50549-1, NRS 097-2-1, UNE 217002-2020 |                    |                    |                    |                    |                    |                    |

\*All specifications are subject to change without notice.