

SOFAR 15K~24KTLX-G3  
15 / 17 / 20 / 22 / 24 kW

THREE-PHASE DUAL MPPT



Product advantages

- Maximum efficiency 98.6%
- Low start-up voltage, wide MPPT voltage
- Maximum DC input voltage 1100 V
- Smart string level monitoring
- Type II SPD for both DC and AC side
- Remote firmware upgrade
- 110% long-time overload ability



| Model                             | SOFAR<br>15KTLX-G3                                                                                                                                                                    |  | SOFAR<br>17KTLX-G3 |  | SOFAR<br>20KTLX-G3       |  | SOFAR<br>22KTLX-G3 |  | SOFAR<br>24KTLX-G3 |  |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|--|--------------------------|--|--------------------|--|--------------------|--|
| Input (DC)                        |                                                                                                                                                                                       |  |                    |  |                          |  |                    |  |                    |  |
| Max. input voltage                |                                                                                                                                                                                       |  |                    |  | 1100V                    |  |                    |  |                    |  |
| Rated input voltage               |                                                                                                                                                                                       |  |                    |  | 650V                     |  |                    |  |                    |  |
| Start-up voltage                  |                                                                                                                                                                                       |  |                    |  | 160V                     |  |                    |  |                    |  |
| MPPT operating voltage range      |                                                                                                                                                                                       |  |                    |  | 140V-1000V               |  |                    |  |                    |  |
| Number of MPP trackers            |                                                                                                                                                                                       |  |                    |  | 2                        |  |                    |  |                    |  |
| Number of DC inputs               |                                                                                                                                                                                       |  |                    |  | 2/2                      |  |                    |  |                    |  |
| Max. input MPPT current           | 26A/26A                                                                                                                                                                               |  | 26A/26A            |  | 26A/26A                  |  | 26A/26A            |  | 26A/26A            |  |
| Max. input short circuit current  | 36A/36A                                                                                                                                                                               |  | 36A/36A            |  | 36A/36A                  |  | 36A/36A            |  | 36A/36A            |  |
| Output (AC)                       |                                                                                                                                                                                       |  |                    |  |                          |  |                    |  |                    |  |
| Rated output power                | 15000W                                                                                                                                                                                |  | 17000W             |  | 20000W                   |  | 22000W             |  | 24000W             |  |
| Max. apparent power               | 16500VA                                                                                                                                                                               |  | 18700VA            |  | 22000VA                  |  | 24200VA            |  | 26400VA            |  |
| Max. output current               | 23.9A                                                                                                                                                                                 |  | 27.1A              |  | 31.9A                    |  | 35.1A              |  | 38.3A              |  |
| Rated output voltage              |                                                                                                                                                                                       |  |                    |  | 3/N/PE, 230V/400Vac      |  |                    |  |                    |  |
| Output voltage range              |                                                                                                                                                                                       |  |                    |  | 310Vac-480Vac            |  |                    |  |                    |  |
| Rated output frequency            |                                                                                                                                                                                       |  |                    |  | 50/60Hz                  |  |                    |  |                    |  |
| Output frequency range            |                                                                                                                                                                                       |  |                    |  | 45Hz-55Hz/55Hz-65Hz      |  |                    |  |                    |  |
| Active power adjustable range     |                                                                                                                                                                                       |  |                    |  | 0-100%                   |  |                    |  |                    |  |
| THDI                              |                                                                                                                                                                                       |  |                    |  | <3%                      |  |                    |  |                    |  |
| Power factor                      |                                                                                                                                                                                       |  |                    |  | 1 (adjustable +/0.8)     |  |                    |  |                    |  |
| Efficiency                        |                                                                                                                                                                                       |  |                    |  |                          |  |                    |  |                    |  |
| Max. efficiency                   | 98.6%                                                                                                                                                                                 |  | 98.6%              |  | 98.6%                    |  | 98.6%              |  | 98.6%              |  |
| European efficiency               | 98.2%                                                                                                                                                                                 |  | 98.2%              |  | 98.2%                    |  | 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°C~+60°C              |  |                    |  |                    |  |
| Self-consumption at night         |                                                                                                                                                                                       |  |                    |  | <1W                      |  |                    |  |                    |  |
| Topology                          |                                                                                                                                                                                       |  |                    |  | Transformerless          |  |                    |  |                    |  |
| Degree of protection              |                                                                                                                                                                                       |  |                    |  | IP65                     |  |                    |  |                    |  |
| Allowable relative humidity range |                                                                                                                                                                                       |  |                    |  | 0-100%                   |  |                    |  |                    |  |
| Max. operating altitude           |                                                                                                                                                                                       |  |                    |  | 4000m                    |  |                    |  |                    |  |
| Cooling                           |                                                                                                                                                                                       |  |                    |  | Smart air cooling        |  |                    |  |                    |  |
| Dimension (W*H*D)                 |                                                                                                                                                                                       |  |                    |  | 520*430*189mm            |  |                    |  |                    |  |
| Weight                            | 20kg                                                                                                                                                                                  |  | 22kg               |  | 22kg                     |  | 23kg               |  | 23kg               |  |
| Display                           |                                                                                                                                                                                       |  |                    |  | LCD & Bluetooth + APP    |  |                    |  |                    |  |
| Communication                     |                                                                                                                                                                                       |  |                    |  | RS485/WiFi               |  |                    |  |                    |  |
| Standard                          | IEC/EN 61000-6-1/3, IEC/EN 61000-3-11/12, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2, C99, VDE-AR-N 4105, VDE V 0126-1-1, CE0-21, EN 50549-1, NRS 097-2-1 |  |                    |  |                          |  |                    |  |                    |  |

\*All specifications are subject to change without notice.