

SOFAR 3.3K~12KTLX-G3

3.3 / 4.4 / 5.5 / 6.6 / 8.8 / 11 / 10 / 12 kW

THREE-PHASE DUAL-MPPTS



Product advantages

- Maximum efficiency 98.6%
- Low start-up voltage, wide MPPT voltage
- Maximum DC input voltage 1100 V
- Smart string level monitoring
- Remote firmware upgrade
- Natural cooling, no fans, low noise
- Type II SPD for both DC and AC side



| Datasheet | SOFAR 3.3KTLX-G3 | SOFAR 4.4KTLX-G3 | SOFAR 5.5KTLX-G3 | SOFAR 6.6KTLX-G3 | SOFAR 8.8KTLX-G3 | SOFAR 11KTLX-G3 | SOFAR 10KTLX-G3-A | SOFAR 12KTLX-G3 | |
|---|--|------------------|------------------|------------------|------------------|-----------------|-------------------|-----------------|--|
| Input (DC) | | | | | | | | | |
| Recommended max. PV input power (Wp) | 4500 | 6000 | 7500 | 9000 | 12000 | 15000 | | 18000 | |
| Max. DC power for single MPPT (W) | 4500 | 6000 | | 7500 | | | 7500/15000 | | |
| Number of MPP trackers | 2 | | | | | | | | |
| Number of DC inputs | 1/1 | | | | | | 1/2 | | |
| Max. input voltage (V) | 1100 | | | | | | | | |
| Start-up voltage (V) | 160 | | | | | | | | |
| Rated input voltage (V) | 650 | | | | | | | | |
| MPPT operating voltage range (V) | 140-1000 | | | | | | | | |
| Full power MPPT voltage range (V) | 160-850 | 190-850 | 240-850 | 290-850 | 380-850 | 420-850 | | 460-850 | |
| Max. input MPPT current (A) | 15 / 15 | | | | | 15 / 15 | | 15 / 30 | |
| Max. input short circuit current per MPPT (A) | 22.5 / 22.5 | | | 22.5 / 22.5 | | | 22.5 / 45 | | |
| Output (AC) | | | | | | | | | |
| Rated power (W) | 3000 | 4000 | 5000 | 6000 | 8000 | 10000 | 10000 | 12000 | |
| Max. AC power (VA) | 3300 | 4400 | 5500 | 6600 | 8800 | 11000 | 10000 | 13200 | |
| Max. output current (A) | 5 | 6.7 | 8.3 | 10 | 13.3 | 16.7 | 15.2 | 20 | |
| Rated grid voltage | 3 / N / PE, 230 / 400 Vac | | | | | | | | |
| Grid voltage range | 310 - 480 Vac (according to local standard) | | | | | | | | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | | | | | |
| Grid frequency range | 45 Hz-55 Hz / 55 Hz-65 Hz (according to local standard) | | | | | | | | |
| Active power adjustable range | 0-100% | | | | | | | | |
| THDi | < 3% | | | | | | | | |
| Power factor | 1 default; (adjustable +/0.8) | | | | | | | | |
| Efficiency | | | | | | | | | |
| Max. efficiency | 98.4% | | | | | 98.5% | | | |
| European efficiency | 97.5% | | | | | 98.0% | | | |
| Protection | | | | | | | | | |
| DC reverse polarity protection | Yes | | | | | | | | |
| Anti-islanding protection | Yes | | | | | | | | |
| Leakage current protection | Yes | | | | | | | | |
| Ground fault monitoring | Yes | | | | | | | | |
| PV-array string fault monitoring | Yes | | | | | | | | |
| Feed-in limitation function | Yes | | | | | | | | |
| DC switch | Yes | | | | | | | | |
| Input / output SPD | PV: type II standard, AC: type II standard | | | | | | | | |
| Communication | | | | | | | | | |
| Standard Communication mode | RS485/Bluetooth, Optional: WiFi/Ethernet | | | | | | | | |
| General Data | | | | | | | | | |
| Ambient temperature range | -30°C ~ +60°C | | | | | | | | |
| Self-consumption at night (W) | < 1 | | | | | | | | |
| Topology | Transformerless | | | | | | | | |
| Degree of protection | IP65 | | | | | | | | |
| Allowable relative humidity range | 0-100% | | | | | | | | |
| Max. operating altitude | 4000 m | | | | | | | | |
| Weight (kg) | 17 | | | | | 18 | | | |
| Cooling | Natural | | | | | | | | |
| Dimension (mm) | 430*385*182 | | | | | | | | |
| Display | LCD, App via Bluetooth | | | | | | | | |
| Standard | | | | | | | | | |
| EMC | EN 61000-6-1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12 | | | | | | | | |
| Safety standards | IEC 62109-1/2, IEC62116, IEC 61727, IEC61683, IEC 60068 (1, 2, 14, 30) | | | | | | | | |
| Grid standards | VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21 / CEI 0-16, UNE 206 007-1, EN 50549, C98 / C99, EN 50530 | | | | | | | | |

* All specifications are subject to change without notice.