


SOFAR

# 25K~50KTLX-G3

25000 / 30000 / 33000 / 36000 / 40000 / 45000 / 50000 W

## THREE-PHASE

- Up to 4 MPPTs with DC overload capability (up to 150%)
- Type II SPD for both DC and AC side
- Low start-up voltage, wide MPPT voltage range
- I-V curve scanning function
- Intelligent monitoring, remote operation

## THREE TO FOUR MPPTS

- Max. efficiency up to 98.90%
- Prolonged AC overload capability (110%)
- Compatible with 500 W+ modules

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| Datasheet | 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| **Input (DC)** | | | | | | | | | | |
| Recommended max. PV input power (Wp) | 37500 | 45000 | 45000 | 49500 | 54000 | 60000 | 67500 | 75000 | 60000 | 75000 |
| Max. DC power for single MPPT(W) | 25000 | | | | | | | | | |
| Number of MPP trackers | 3 | | | | | 4 | | | 3 | 4 |
| Number of DC inputs | 2 for each MPPT | | | | | | | | | |
| Max. input voltage (V) | 1100 | | | | | | | | | |
| Start-up voltage (V) | 200 | | | | | | | | | |
| Rated input voltage (V) | 620 | | | | | | | | 725 | 725 |
| MPPT operating voltage range (V) | 180-1000 | | | | | | | | | |
| Full power MPPT voltage range (V) | 480–850 | | | 510-850 | 540–850 | 480–850 | 510–850 | 540–850 | 620–850 | 650–850 |
| Max. input MPPT current (A) | 3*40 | | | | | 4*40 | | | 3*40 | 4*40 |
| Max. input short circuit current per MPPT (A) | 3*50 | | | | | 4*50 | | | 3*50 | 4*50 |
| **Output (AC)** | | | | | | | | | | |
| Rated power (W) | 25000 | 30000 | 29900 | 33000 | 36000 | 40000 | 45000 | 50000 | 40000 | 50000 |
| Max. AC power (VA) | 28000 | 34000 | 29900 | 37000 | 40000 | 44000 | 50000 | 55000 | 44000 | 55000 |
| Max. output current (A) | 42.4 | 51.5 | 45.3 | 56.0 | 60.6 | 66.7 | 75.8 | 83.3 | 53 | 66.2 |
| Rated grid voltage | 3 / N / PE, 220 V / 380 Vac, 230 V / 400 Vac | | | | | | | | 3/N/PE or 3/PE, 277/480 Vac | |
| Grid voltage range | 310 - 480 Vac (according to local standard) | | | | | | | | 422 - 528 VaC (according to local standard) | |
| Rated grid frequency | 50 Hz / 60 Hz | | | | | | | | | |
| Grid frequency range | 45 Hz–55 Hz / 54 Hz–66 Hz (according to local standard) | | | | | | | | | |
| Active power adjustable range | 0~100% | | | | | | | | | |
| THDi | < 3% | | | | | | | | | |
| Power factor | 1 default (adjustable +/-0.8) | | | | | | | | | |
| **Performance** | | | | | | | | | | |
| Max. efficiency | 98.60% | | | | | 98.80% | | | | 98.90% |
| European efficiency | 98.20% | | | | | | | | | |
| **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/USB/Bluetooth<br>Optional: WiFi/Ethernet/LTE | | | | | | | | | |
| **General Data** | | | | | | | | | | |
| Ambient temperature range | -30℃~+60℃ | | | | | | | | | |
| Self-consumption at night (W) | <3 | | | | | | | | | |
| Topology | Transformerless | | | | | | | | | |
| Degree of protection | IP65 | | | | | | | | | |
| Allowable relative humidity range | 0~100% | | | | | | | | | |
| Max. operating altitude | 4000 m | | | | | | | | | |
| Noise | < 60 dB | | | | | | | | | |
| Weight (kg) | 36 | | | | | 37 | | | | |
| Cooling | Fan | | | | | | | | | |
| Dimension (mm) | 585*480*220 | | | | | | | | | |
| Display | LCD, App via Bluetooth | | | | | | | | | |
| Warranty | 5 years, Optional: 7&10 years | | | | | | | | | |
| **Standard** | | | | | | | | | | |
| EMC | EN 61000-6-1, EN 61000-6-2,EN 61000-6-3, EN 61000-6-4 | | | | | | | | | |
| Safety standards | IEC 62109-1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 60255 | | | | | | | | | |
| Grid standards | AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16,<br>UNE 206 007-1, EN 50549, G98/G99, EN 50530, NB/T32004 | | | | | | | | | |