

Datasheet

| | SOFAR 3.3KTLX-G3 | SOFAR 4.4KTLX-G3 | SOFAR* 5KTLX-G3 (Australia) | SOFAR 5.5KTLX-G3 | SOFAR 6.6KTLX-G3 | SOFAR 8.8KTLX-G3 | SOFAR* 10KTLX-G3 (Australia) | SOFAR 11KTLX-G3 | SOFAR 12KTLX-G3 |
|--|---------------------|---------------------|-----------------------------------|---------------------|---------------------|---------------------|------------------------------------|--------------------|--------------------|
|--|---------------------|---------------------|-----------------------------------|---------------------|---------------------|---------------------|------------------------------------|--------------------|--------------------|

Input (DC)

| | | | | | | | | | |
|---|-----------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|
| Recommended Max. PV input power | 4500Wp | 6000Wp | 7500Wp | 7500Wp | 9000Wp | 12000Wp | 15000Wp | 15000Wp | 18000Wp |
| Number of MPP trackers | | | | | 2 | | | | |
| Number of DC inputs | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 1/1 | 2/1 | 1/1 | 2/1 |
| Max. input voltage | | | | | 1100V | | | | |
| Start-up voltage | | | | | 160V | | | | |
| Rated input voltage | | | | | 650V | | | | |
| MPPT operating voltage range | | | | | 140V-1000V | | | | |
| Full power MPPT voltage range | 160V-850V | 190V-850V | 240V-850V | 240V-850V | 290V-850V | 380V-850V | 420V-850V | 420V-850V | 420V-850V |
| Max. input MPPT current | 13A/13A | 13A/13A | 13A/13A | 13A/13A | 13A/13A | 13A/13A | 26A/13A | 13A/13A | 26A/13A |
| Max. input short circuit current per MPPT | 18A/18A | 18A/18A | 18A/18A | 18A/18A | 18A/18A | 18A/18A | 36A/18A | 18A/18A | 36A/18A |

Output (AC)

| | | | | | | | | | |
|-------------------------------|---|--------|--------|--------|--------|--------|---------|---------|---------|
| Rated power | 3000W | 4000W | 5000W | 5000W | 6000W | 8000W | 10000W | 10000W | 12000W |
| Max. AC power | 3300VA | 4400VA | 5000VA | 5500VA | 6600VA | 8800VA | 11000VA | 11000VA | 13200VA |
| Max. Output current | 4.8A | 6.4A | 7.3A | 8.0A | 9.6A | 12.8A | 15.9A | 15.9A | 19.1A |
| Nominal grid voltage | 3/N/PE, 220V/380Vac, 230V/400Vac | | | | | | | | |
| Grid voltage range | 310Vac-480Vac (According to local standard) | | | | | | | | |
| Nominal frequency | 50 / 60Hz | | | | | | | | |
| Grid frequency range | 45Hz-55Hz/54Hz-66Hz (According to local standard) | | | | | | | | |
| Active power adjustable range | 0~100% | | | | | | | | |
| THDI | < 3% | | | | | | | | |
| Power factor | 1 default (adjustable +/- 0.8) | | | | | | | | |

Performance

| | | | | | | | | | |
|------------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| Max efficiency | 98.40% | 98.40% | 98.40% | 98.40% | 98.40% | 98.50% | 98.50% | 98.50% | 98.50% |
| European weighted efficiency | 97.50% | 97.50% | 97.50% | 97.50% | 97.50% | 98.00% | 98.00% | 98.00% | 98.00% |
| Self-consumption at night | < 1W | | | | | | | | |
| MPPT efficiency | > 99.9% | | | | | | | | |

Protection

| | |
|----------------------------------|--|
| DC reverse polarity protection | Yes |
| Anti-islanding protection | Yes |
| Leakage current protection | Yes |
| Ground fault monitoring | Yes |
| PV-array string fault monitoring | Yes |
| Anti reverse power function | Optional |
| DC switch | Yes |
| AFCI protection | Optional |
| Input / output SPD | PV: type II standard, AC: type II standard |

Communication

| | |
|-----------------------------|---|
| Power management unit | According to certification and request |
| Standard communication mode | RS485/ USB/ Bluetooth, Optional: WiFi/ GPRS |
| Operation data storage | 25 years |

General Data

| | |
|-----------------------------------|----------------------------|
| Ambient temperature range | -30°C~ +60°C |
| Topology | Transformerless |
| Degree of protection | IP65 |
| Allowable relative humidity range | 0~100% |
| Max. Operating altitude | 4000m |
| Noise | <40dB |
| Weight | 15kg |
| Cooling | Natural |
| Dimension | 430*375*179mm |
| Display | LCD&Bluetooth + APP |
| Warranty | 5 years/ 7 years/ 10 years |

Standard

| | |
|------------------|--|
| EMC | EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 |
| Safety standards | IEC62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30) |
| Grid standards | AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G98/G99, EN50530, NB/T32004 |

The models marked with * should be available only for some designated countries.