

SOFAR 3.3K~12KTLX-G3

3.3 / 4.4 / 5 / 6.6 / 8.8 / 10 / 11 / 12 kW

THREE-PHASE DUAL MPPT



Product advantages

- Maximum efficiency 98.5%
- 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 5KTLX-G3-A | SOFAR 5.5KTLX-G3 | SOFAR 6.6KTLX-G3 | SOFAR 8.8KTLX-G3 | SOFAR 11KTLX-G3 |
|-----------------------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|
| Input (DC) | | | | | | | |
| Recommended Max. PV input power | 4500Wp | 6000Wp | 7500Wp | 7500Wp | 9000Wp | 12000Wp | 15000Wp |
| Max. input voltage | 1100V | | | | | | |
| Rated input voltage | 650V | | | | | | |
| Start-up voltage | 160V | | | | | | |
| MPPT operating voltage range | 140V-1000V | | | | | | |
| Number of MPP trackers | 2 | | | | | | |
| Number for DC inputs | 1/1 | | | | | | |
| Max. input MPPT current | 15A/15A | | | | | | |
| Max. input short circuit current | 22.5A/22.5A | | | | | | |
| Output (AC) | | | | | | | |
| Rated output power | 3000W | 4000W | 5000W | 5000W | 6000W | 8000W | 10000W |
| Rated apparent power | 3000VA | 4000VA | 5000VA | 5000VA | 6000VA | 8000VA | 10000VA |
| Max. apparent power | 3300VA | 4400VA | 5000VA | 5500VA | 6600VA | 8800VA | 11000VA |
| Rated output current | 4.3A | 5.8A | 7.2A | 7.2A | 8.7A | 11.6A | 14.5A |
| Max. Output current | 5A | 6.7A | 7.6A | 8.3A | 10A | 13.3A | 16.7A |
| Rated output voltage | 3/N/PE, 230/400Vac | | | | | | |
| 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 | 98.40% | | | | | 98.50% | |
| European efficiency | 97.50% | | | | | 98.00% | |
| Protection | | | | | | | |
| DC reverse polarity protection | Yes | | | | | | |
| Anti-islanding protection | Method (Reactive power disturbance) | | | | | | |
| 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 | Natural | | | | | | |
| Dimension(W×H×D) | 430×385×182mm | | | | | | |
| Weight | 17kg | | | | | 18kg | |
| Display | LCD & Bluetooth +APP | | | | | | |
| Communication | RS485/Wi-Fi | | | | | | |
| Standard | IEC 61000-6-1/3, IEC 61000-3-2/3, IEC 61000-3-11/12, IEC 62109-1/2 AS/NZS 4777.2:2020 | | | | | | |

*All specifications are subject to change without notice.

| Datasheet | SOFAR 8.8KTLX-G3-A | SOFAR 10KTLX-G3-A | SOFAR 11KTLX-G3-A | SOFAR 12KTLX-G3 |
|-----------------------------------|--|----------------------|----------------------|--------------------|
| Input (DC) | | | | |
| Recommended Max. PV input power | 12000Wp | 15000Wp | 15000Wp | 18000Wp |
| Max. input voltage | 1100V | | | |
| Rated input voltage | 650V | | | |
| Start-up voltage | 160V | | | |
| MPPT operating voltage range | 140V-1000V | | | |
| Number of MPP trackers | 2 | | | |
| Number for DC inputs | 1/2 | | | |
| Max. input MPPT current | 15A/30A | | | |
| Max. input short circuit current | 22.5A/45A | | | |
| Output (AC) | | | | |
| Rated output power | 8000W | 10000W | 10000W | 12000W |
| Rated apparent power | 8000VA | 10000VA | 10000VA | 12000VA |
| Max. apparent power | 8800VA | 10000VA | 11000VA | 13200VA |
| Rated output current | 11.6A | 14.5A | 14.5A | 17.4A |
| Max. Output current | 13.3A | 15.2A | 16.7A | 20A |
| Rated output voltage | 3/N/PE, 230/400Vac | | | |
| 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 | 98.50% | | | |
| European efficiency | 98.00% | | | |
| Protection | | | | |
| DC reverse polarity protection | Yes | | | |
| Anti-islanding protection | Method (Reactive power disturbance) | | | |
| 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 | Natural | | | |
| Dimension(W×H×D) | 430×385×182mm | | | |
| Weight | 18kg | | | |
| Display | LCD & Bluetooth +APP | | | |
| Communication | RS485/Wi-Fi | | | |
| Standard | IEC 61000-6-1/3, IEC 61000-3-2/3, IEC 61000-3-11/12, IEC 62109-1/2 AS/NZS 4777.2:2020 | | | |

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