# SOFAR 7K~10.5KTLM-G3

7 / 8 / 9 / 10 / 10.5 kW

## SINGLE-PHASE THREE-MPPTS




## Product advantages

- Max. efficiency up to 98.1%
- Low start-up voltage, wide MPPT voltage range
- Three MPPTs with 150% DC overload
- Compatible with 500 W+ modules
- I-V curve scanning function
- Natural cooling, no fans, low noise
- Prolonged AC overload compatibility (110%)



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| Datasheet | SOFAR 7KTLM-G3 | SOFAR 8KTLM-G3 | SOFAR 9KTLM-G3 | SOFAR 10KTLM-G3 | SOFAR 10.5KTLM-G3 |
|---|---|---|---|---|---|
| **Input (DC)** | | | | | |
| Recommended Max. PV input power | 10500Wp | 12000Wp | 13500Wp | 15000Wp | 15000Wp |
| Max. input voltage | 600V | | | | |
| Rated input voltage | 360V | | | | |
| Start-up voltage | 90V | | | | |
| MPPT operating voltage range | 80V~550V | | | | |
| Number of MPPTs | 3 | | | | |
| Number for DC inputs | 3 | | | | |
| Max. input MPPT current | 20A/16A/16A | | | | |
| Max. input short circuit current | 30A/25A/25A | | | | |
| **Output (AC)** | | | | | |
| Rated output power | 7000W | 8000W | 9000W | 10000W | 10500W |
| Rated apparent power | 7000VA | 8000VA | 9000VA | 10000VA | 10500VA |
| Max. apparent power | 7700VA | 8800VA | 9900VA | 10000VA | 10500VA |
| Rated output current | 30.4A | 34.8A | 39.1A | 43.5A | 45.6A |
| Max. Output current | 35A | 40A | 45A | 46A | 46A |
| Rated output voltage | L/N/PE,230Vac | | | | |
| Output voltage range | 180Vac-276Vac | | | | |
| 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 | 98.1% | | | | |
| European efficiency | 97.3% | | | | |
| **Protection** | | | | | |
| DC reverse polarity protection | Yes | | | | |
| Anti-islanding protection | YesMethod (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 III | | | | |
| **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) | 468×380×187 mm | | | | |
| Weight | 17.5kg | | 18.5kg | | |
| Display | LCD & Bluetooth +APP | | | | |
| Communication | RS485/Wi-Fi | | | | |
| Standard | IEC 61000-6-1/3, IEC 61000-3-11/12,<br>IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC 62109-1/2<br>AS/NZS 4777.2:2020 | | | | |

*All specifications are subject to change without notice.

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