

# SOFAR 7K~10.5KTLM-G3

7/7.7/8/9/10/10.5 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%)



| Model                             | SOFAR 7KTLM-G3   | SOFAR 7.7KTLM-G3 | SOFAR 8KTLM-G3 | SOFAR 9KTLM-G3 | SOFAR 10KTLM-G3 | SOFAR 10.5KTLM-G3 |
|-----------------------------------|--|------------------|----------------|----------------|-----------------|-------------------|
| <b>Input (DC)</b>                 |  |                  |                |                |                 |                   |
| Max. input voltage                | 600V   |                  |                |                |                 |                   |
| Rated input voltage               | 360V   |                  |                |                |                 |                   |
| Start-up voltage                  | 90V  |                  |                |                |                 |                   |
| MPPT operating voltage range      | 80V-550V   |                  |                |                |                 |                   |
| Number of Mpp trackers            | 3  |                  |                |                |                 |                   |
| Number of DC inputs               | 3  |                  |                |                |                 |                   |
| Max. input MPPT current           | 20A/16A/16A  |                  |                |                |                 |                   |
| Max. input short circuit current  | 30A/25A/25A  |                  |                |                |                 |                   |
| <b>Output (AC)</b>                |  |                  |                |                |                 |                   |
| Rated output power                | 7000W  | 7700W            | 8000W          | 9000W          | 10000W          | 10500W            |
| Max. apparent power               | 7700VA   | 7700VA           | 8800VA         | 9900VA         | 10000VA         | 10500VA           |
| Max. Output current               | 35A  | 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 )  |                  |                |                |                 |                   |
| <b>Efficiency</b>                 |  |                  |                |                |                 |                   |
| Max. efficiency                   | 98.1%  |                  |                |                |                 |                   |
| European efficiency               | 97.3%  |                  |                |                |                 |                   |
| <b>Protection</b>                 |  |                  |                |                |                 |                   |
| DC reverse polarity protection    | Yes  |                  |                |                |                 |                   |
| Anti-islanding protection         | Yes  |                  |                |                |                 |                   |
| Leakage current protection        | Yes  |                  |                |                |                 |                   |
| Ground fault monitoring           | Yes  |                  |                |                |                 |                   |
| PV-array string fault monitoring  | Yes  |                  |                |                |                 |                   |
| DC switch                         | Optional   |                  |                |                |                 |                   |
| SPD                               | type II  |                  |                |                |                 |                   |
| <b>General Data</b>               |  |                  |                |                |                 |                   |
| 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/WIFI   |                  |                |                |                 |                   |
| Standard                          | IEC 61000-6-1/3, IEC 61000-3-11/12, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC 62109-1/2 AS/NZS 4777.2:2020 |                  |                |                |                 |                   |

\*All specifications are subject to change without notice.