



SOFAR 3K~6KTLM-G3

3000/3600/4000/4600/5000/6000



Single-Phase Dual-MPPT

- 0** Built-in zero export function
- AFCI** Optional AFCI function
- Compact design, light in weight
- Natural cooling, no fans, low noise
- 98.4%** Max. efficiency up to 98.4%
- 2** Two MPP trackers with 1.5*DC overload
- Smart monitoring, remote firmware upgrade

Datasheet

| | SOFAR 3KTLM-G3 | SOFAR 3.6KTLM-G3 | SOFAR 4KTLM-G3 | SOFAR 4.6KTLM-G3 | SOFAR 5KTLM-G3 | SOFAR 6KTLM-G3 |
|---|---|---------------------|-------------------|---------------------|-------------------|-------------------|
| Input (DC) | | | | | | |
| Recommended Max. PV input power | 4500Wp | 5400Wp | 6000Wp | 6900Wp | 7500Wp | 9000Wp |
| Max DC power for single MPPT | 3500W | | | | | |
| Number of MPP trackers | 2 | | | | | |
| Number of DC inputs | 1 for each MPPT | | | | | |
| Max. Input voltage | 600V | | | | | |
| Start-up voltage | 60V | | | | | |
| Rated input voltage | 340V | | | | | |
| MPPT operating voltage range | 50V-570V | | | | | |
| Full power MPPT voltage range | 125V-520V | 150V-520V | 165V-520V | 190V-520V | 210V-520V | 250V-520V |
| Max. Input MPPT current | 12.5A/12.5A | | | | | |
| Max. input short circuit current per MPPT | 15A/15A | | | | | |
| Output (AC) | | | | | | |
| Rated power | 3000W | 3680W | 4000W | 4600W | 5000W | 6000W |
| Max. AC power | 3000VA | 3680VA | 4000VA | 4600VA | 5000VA | 6000VA |
| Nominal output current | 13A | 16A | 17.4A | 20A | 21.7A | 26.1A |
| Max. Output current | 14.4A | 16A | 19.3A | 22.2A | 24.1A | 28.9A |
| Nominal grid voltage | L/N/PE, 220Vac, 230Vac, 240Vac | | | | | |
| Grid voltage range | 180Vac-276Vac (According to local standard) | | | | | |
| Nominal frequency | 50Hz/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) | | | | | |
| Power limit export | Zero export or adjustable power limit export | | | | | |
| Performance | | | | | | |
| Max efficiency | 98.2% | 98.2% | 98.4% | 98.4% | 98.4% | 98.4% |
| European weighted efficiency | 97.3% | 97.3% | 97.3% | 97.5% | 97.5% | 97.5% |
| Self-consumption at night | <1W | | | | | |
| MPPT efficiency | >99.9% | | | | | |
| Protection | | | | | | |
| DC reverse polarity protection | Yes | | | | | |
| DC switch | Optional | | | | | |
| AFCI protection | Optional | | | | | |
| Protection class/overvoltage category | I/III | | | | | |
| Safety protection | Anti islanding, RCMD, Ground fault monitoring | | | | | |
| SPD | MOV: Type III standard | | | | | |
| Communication | | | | | | |
| Power management unit | According to certification and request | | | | | |
| Standard communication mode | RS485/USB, Optional: WiFi/GPRS | | | | | |
| Operation data storage | 25 years | | | | | |
| General Data | | | | | | |
| Ambient temperature range | -30°C~+40°C | | | | | |
| Topology | Transformerless | | | | | |
| Degree of protection | IP65 | | | | | |
| Allowable relative humidity range | 0-100% | | | | | |
| Max. Operating altitude | 4000m | | | | | |
| Noise | <25dB | | | | | |
| Weight | 10kg | | | | | |
| Cooling | Natural | | | | | |
| Dimension | 345*341*167mm | | | | | |
| Display | LCD display | | | | | |
| Warranty | 5 years/7 years/10 years | | | | | |
| Standard | | | | | | |
| EMC | EN 61000-4-2, EN 61000-4-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12 | | | | | |
| Safety standards | IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30) | | | | | |
| Grid standards | VDE-AR-N 4105, VDE V0126-1-1, V0124-100, AS/NZS 4777, CEI 0-21, G98/G99, C1011, EN 50549, RD 1699 | | | | | |