



SOFAR 1k~3kTL

1100/ 1600/ 2200/ 2700/ 3000

Single-Phase

Single-MPPT



Easy installation



IP65 ingress protection



Max. efficiency up to 97.2%



Super large 4-inch LCD



Wide input voltage operation range



Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)

| Datasheet | SOFAR 1100TL | SOFAR 1600TL | SOFAR 2200TL | SOFAR 2700TL | SOFAR 3000TL |
|---|---|-----------------|-----------------|-----------------|-----------------|
| Input (DC) | | | | | |
| Recommended Max. PV input power | 1470W | 2130W | 2930W | 3600W | 3990W |
| Max. Input voltage | 450V | 450V | 500V | 500V | 500V |
| Number of MPPT/ String per MPPT | 1/1 | | | | |
| Start-up voltage | 100V | 100V | 120V | 120V | 120V |
| Rated input voltage | 360V | | | | |
| MPPT operating voltage range | 80-455V | 80-455V | 100-505V | 100-505V | 100-550V |
| Full power MPPT voltage range | 105-380V | 160-380V | 165-450V | 205-450V | 225-475V |
| Max. Input current | 10A | 10A | 13A | 13.5A | 15A |
| Maximun DC input short circuit current per MPPT | 12.5A | 12.5A | 16.5A | 17A | 19A |
| Output (AC) | | | | | |
| Rated power | 1000W | 1550W | 2100W | 2600W | 3100W |
| Max. AC power | 1000VA | 1550VA | 2100VA | 2600VA | 3100VA |
| Max. AC output current | 4.5A | 7A | 9.5A | 11.5A | 13A |
| 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) | | | | |
| THDi | < 3% | | | | |
| Power factor | 1 default (adjustable +/- 0.8) | | | | |
| Power limit export | Zero export or adjustable power limit export | | | | |
| Efficiency | | | | | |
| Max. Efficiency | 97.0% | 97.0% | 97.0% | 97.1% | 97.2% |
| European weighted efficiency | 95.2% | 95.9% | 96.1% | 96.4% | 96.5% |
| MPPT adaptation efficiency | > 99.9% | | | | |
| Protection | | | | | |
| Anti-Islanding protection | Yes | | | | |
| DC reverse polarity protection | Yes | | | | |
| Over temp protection | Yes | | | | |
| Leakage current protection | Yes | | | | |
| Over voltage protection | Yes | | | | |
| Over current protection | Yes | | | | |
| Earth fault protection | Yes | | | | |
| SPD | MOV: Type III standard | | | | |
| Communication | | | | | |
| Standard communication mode | Rs485, WiFi/Ethernet/GPRS(optional), SD card(optional) | | | | |
| Operation data storage | 25 Years | | | | |
| I/O | Yes | | | | |
| General Data | | | | | |
| Topology | Transformerless | | | | |
| Ambient temperature range | -30°C ~ +60°C | | | | |
| Allowable relative humidity range | 0 ~ 100% | | | | |
| Noise | < 25dB | | | | |
| DC Switch | Optional | | | | |
| Cooling | Natural | | | | |
| Max. Operating altitude | 2000m | | | | |
| Dimension | 405*314*135mm | | | | |
| Self-consumption at night | < 1W | | | | |
| Weight | 11kg | 11kg | 12kg | 12kg | 12kg |
| Display | LCD display | | | | |
| Degree of protection | IP65 | | | | |
| Warranty | 5 years/ 7 years/ 10 years | | | | |
| Standard | | | | | |
| EMC | EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3 | | | | |
| Safety standards | IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30) | | | | |
| Grid standards | AS/NZS 4777, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, CEI 0-21, EN50438/EN50549, G98/G83, C10/11, RD1699, UTE C15-712-1; ABNT NBR 16149/16150 (for SOFAR3000TL) | | | | |