



# SOFAR 1.1k~3.3kTL-G3

1100/1600/2200/2700/3000/3300



## Single-Phase

## Single-MPPT



**1.4**

1.4 DC overload



IP65 ingress protection

**97.7%**

Max. efficiency up to 97.7%



Light weight, quick and easy to install

**0**

Built-in zero export function



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

# Datasheet

SOFAR  
1100TL-G3

SOFAR  
1600TL-G3

SOFAR  
2200TL-G3

SOFAR  
2700TL-G3

SOFAR  
3000TL-G3

SOFAR  
3300TL-G3

## Input (DC)

|   |          |          |          |          |          |          |
|---|----------|----------|----------|----------|----------|----------|
| Recommended Max. PV input power                 | 1500Wp   | 2200Wp   | 3000Wp   | 3700Wp   | 4100Wp   | 4500Wp   |
| Max. Input voltage                              | 500V     | 500V     | 500V     | 550V     | 550V     | 550V     |
| Start-up voltage                                |          |          |          | 70V      |          |          |
| Rated input voltage                             |          |          |          | 360V     |          |          |
| MPPT operating voltage range                    | 50-500V  | 50-500V  | 50-500V  | 50-550V  | 50-550V  | 50-550V  |
| Full power MPPT voltage range                   | 110-450V | 150-450V | 200-450V | 250-500V | 275-500V | 300-500V |
| Max. Input current MPPT                         |          |          |          | 12A      |          |          |
| Maximum DC input short circuit current per MPPT |          |          |          | 15A      |          |          |
| Number of MPPT/ String per MPPT                 |          |          |          | 1/1      |          |          |
| Input terminal type                             |          |          |          | MC4/H4   |          |          |

## Output (AC)

|                      |        |        |        |   |        |        |
|----------------------|--------|--------|--------|---|--------|--------|
| Rated power          | 1100W  | 1600W  | 2200W  | 2700W   | 3000W  | 3300W  |
| Max. AC power        | 1100VA | 1600VA | 2200VA | 2700VA  | 3000VA | 3300VA |
| Rated Output current | 4.8A   | 7A     | 9.6A   | 11.8A   | 13A    | 14.3A  |
| Max. Output current  | 5.3A   | 7.7A   | 10.6A  | 13A   | 14.5A  | 16A    |
| 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 |        |        |        | 45~55Hz/54~66Hz (According to local standard) |        |        |
| THDi                 |        |        |        | <3%   |        |        |
| Power factor         |        |        |        | 1default (adjustable +/- 0.8)                 |        |        |

## Efficiency

|                              |       |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|-------|
| Max. Efficiency              | 97.5% | 97.5% | 97.5% | 97.7% | 97.7% | 97.7% |
| European weighted efficiency | 96.9% | 96.9% | 96.9% | 97.2% | 97.2% | 97.2% |

## 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/GPRS/Ethernet(optional), USB |
|-----------------------------|--|

## 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[mm]                     | 303*260.5*118    303*260.5*118    303*260.5*118    321*260.5*131.5    321*260.5*131.5    321*260.5*131.5 |
| Support bracket                   | Wall-mounted   |
| Weight                            | 5.5kg    5.5kg    5.5kg    6.3kg    6.3kg    6.3kg   |
| Display                           | LCD+LED  |
| Degree of protection              | IP65   |
| Warranty                          | 5 years/ 7 years/ 10 years   |

## Standard

|                  |  |
|------------------|--|
| EMC              | EN 61000-6-1, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3   |
| Safety standards | IEC 61000-6-1, IEC 61000-6-3, IEC 61000-3-2, IEC 61000-3-3, IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 62109-1/2 |
| Grid standards   | AS 4777, VDE V 0124-100, VDE V 0126-1-1, VDE-AR-N 4105, G83/2, C10/11, RD 1699   |