



## Solar Family™ Series

SolarFamily (Brief in SF) Series provide string inverters with the best invention patented topology globally, also, we can customize, which provide more optical choices for PV power systems.

SF series has been proved to be outstanding for its features like leading edge efficiency, high cost-effective, modern appearance, friendly interface, and ultra-long quality warranty, etc.



### Features

- Transformerless with the best patented Topology
- Max. efficiency up to 97.8%
- Single MPPT inputs accommodating wide voltage range
- Compact structure design
- Simple national setting

### Flexibility

- Indoors and outdoors usage (IP 65)
- Easy installation and free maintenance
- Sound control
- Bluetooth technology
- Multi-lingual display

### Reliability

- Reliable protection for over voltage, islanding, short circuit, overload, under voltage and over current, etc.
- 5-year quality warranty extends to 20 years exclusively

### Technical Data

### Solar Family™ Series

| Inverter Model                                   | SF1600TL                              | SF2200TL           | SF3000TL           |
|--|---------------------------------------|--------------------|--------------------|
| <b>Input (DC)</b>                                |                                       |                    |                    |
| Max. DC power                                    | 1700 W                                | 2350 W             | 3150 W             |
| Max. DC voltage                                  | 550 V                                 | 550 V              | 550 V              |
| MPPT Voltage Range /Nominal Voltage              | 120-500V/360V                         | 170-500V/360V      | 210-500V/360V      |
| Max. input current /per string                   | 15A                                   | 15A                | 15A                |
| Shutdown Voltage / Start Voltage                 | 100/120V                              | 100/120V           | 100/120V           |
| Number of MPP trackers / Strings per MPP tracker | 1/1                                   | 1/1                | 1/1                |
| <b>Output (AC)</b>                               |                                       |                    |                    |
| AC nominal power                                 | 1600 W                                | 2200 W             | 3000 W             |
| AC nominal apparent power                        | 1600 VA                               | 2200 VA            | 3000 VA            |
| Nominal AC voltage                               | 220V/230V/240V                        | 220V/230V/240V     | 220V/230V/240V     |
| AC voltage range                                 | 176V-276V                             | 176V-276V          | 176V-276V          |
| AC grid frequency                                | 50Hz/60Hz                             | 50Hz/60Hz          | 50Hz/60Hz          |
| Max. output current                              | 7.8 A                                 | 11 A               | 14.5 A             |
| Power factor                                     | >0.99                                 | >0.99              | >0.99              |
| THD  | <3%                                   | <3%                | <3%                |
| <b>Efficiency</b>                                |                                       |                    |                    |
| Max. efficiency                                  | 97.7%                                 | 97.8%              | 97.8%              |
| Euro efficiency                                  | 97.0%                                 | 97.1%              | 97.2%              |
| MPPT efficiency                                  | 99.9%                                 | 99.9%              | 99.9%              |
| <b>General data</b>                              |                                       |                    |                    |
| Dimensions (W / H / D)in mm                      | 386 / 340 / 159 mm                    | 386 / 340 / 159 mm | 386 / 340 / 159 mm |
| Weight   | 13.6kg                                | 13.9kg             | 13.9kg             |
| Operating temperature range                      | -25°C...+60°C                         | -25°C...+60°C      | -25°C...+60°C      |
| Degree of protection (according to IEC 60529)    | IP65                                  | IP65               | IP65               |
| Climatic category (according to IEC 60721-3-4)   | 4K4H                                  | 4K4H               | 4K4H               |
| Internal consumption: (night)                    | <0.5W                                 | <0.5W              | <0.5W              |
| Topology   | Transformerless                       | Transformerless    | Transformerless    |
| Cooling concept                                  | Natural Convection                    | Natural Convection | Natural Convection |
| Noise (typical)                                  | <30dB                                 | <30dB              | <30dB              |
| Communication                                    | RS485(yes)/Bluetooth(opt.)/WiFi(opt.) |                    |                    |
| Warranty: 5/10/20 years                          | yes / opt. / opt.                     | yes / opt. / opt.  | yes / opt. / opt.  |
| Inverter Model                                   | SF 1600TL                             | SF 2200TL          | SF 3000TL          |

### General data

