



SF 3600TL/4200TL/4600TL/5000TL



## 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 optional choices for PV powersystems.

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 98.1%
- Dual 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 optional

### Technical Data

### Solar Family™ Series

Inverter Model	SF3600TL	SF4200TL	SF4600TL	SF5000TL
<b>Input (DC)</b>				
Max. DC power	3800 W	4400 W	4800 W	5200 W
Max. DC power each MPP tracker	3000 W	3000 W	3000 W	3000 W
Max. DC voltage	550 V	550 V	550 V	550 V
MPPT Voltage Range/Nominal Voltage	175-500V/360V	175-500V/360V	175-500V/360V	175-500V/360V
Shutdown Voltage/Start Voltage	100/120V	100/120V	100/120V	100/120V
Max. input current input A/input B	15A/15A	15A/15A	15A/15A	15A/15A
Number of MPP trackers / Strings per MPP tracker	2/1	2/1	2/1	2/1
<b>Output (AC)</b>				
AC nominal power	3600 W	4200 W	4600 W	5000 W
AC nominal apparent power	3600 VA	4200 VA	4600 VA	5000 VA
Nominal AC voltage	220V/230V/240V	220V/230V/240V	220V/230V/240V	220V/230V/240V
AC voltage range	176V-276V	176V-276V	176V-276V	176V-276V
AC grid frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Max. output current	18A	21A	22A	24A
Power factor (cos φ) adjustable	0.9leading-0.9laging	0.9leading-0.9laging	0.9leading-0.9laging	0.9leading-0.9laging
THD	<3%	<3%	<3%	<3%
<b>Efficiency</b>				
Max. efficiency	98.0%	98.0%	98.0%	98.0%
Euro efficiency	97.3%	97.4%	97.5%	97.5%
CEC efficiency	97.6%	97.7%	97.8%	97.8%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
<b>General data</b>				
Dimensions (W / H / D)in mm	386 / 420/ 1 59 mm	386 / 420/ 1 59 mm	386 / 420/ 1 59 mm	386 / 420/ 1 59 mm
Weight	17.2kg	17.5kg	17.5kg	17.5kg
Operating temperature range	-25°C...+60°C	-25°C...+60°C	-25°C...+60°C	-25°C...+60°C
Degree of protection (according to IEC 60529)	IP65	IP65	IP65	IP65
Climatic category (according to IEC 60721-3-4)	4K4H	4K4H	4K4H	4K4H
Internal consumption: (night)	<0.5W	0.5W	0.5W	0.5W
Topology	Transformerless	Transformerless	Transformerless	Transformerless
Cooling concept	Natural Convection	Natural Convection	Natural Convection	Natural Convection
Noise (typical)	<30dB	<30dB	<30dB	<30dB
Communication	RS485(yes)/Bluetooth(opt.)/WiFi(opt.)			
Warranty: 5/10/20 years	yes / opt. / opt.	yes / opt. / opt.	yes / opt. / opt.	yes / opt. / opt.
Inverter Model	SF 3600TL	SF 4200TL	SF 4600TL	SF 5000TL

### General data

