



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
Input (DC)			
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
Output (AC)			
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%
Efficiency			
Max. efficiency	97.7%	97.8%	97.8%
Euro efficiency	97.0%	97.1%	97.2%
MPPT efficiency	99.9%	99.9%	99.9%
General data			
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

