



Features

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

Flexibility

- Indoors and outdoors usage (IP65)
- Easy installation and free maintenance
- RS485/WiFi(optional) communication
- Sound control
- Multi-lingual display

Reliability

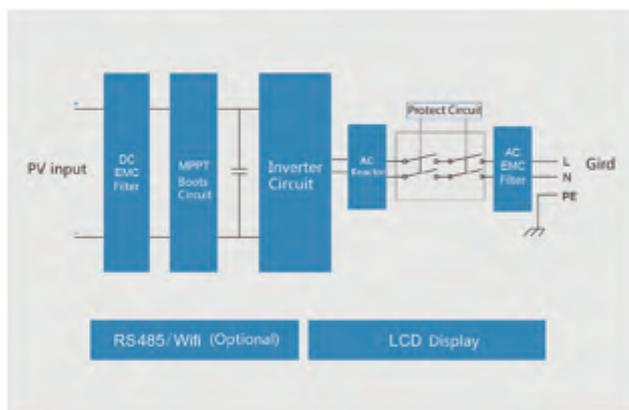
- Reliable protection for over/under voltage, anti-islanding, short circuit, overload, etc.
- 6-year quality warranty extends to 15 years(optional)



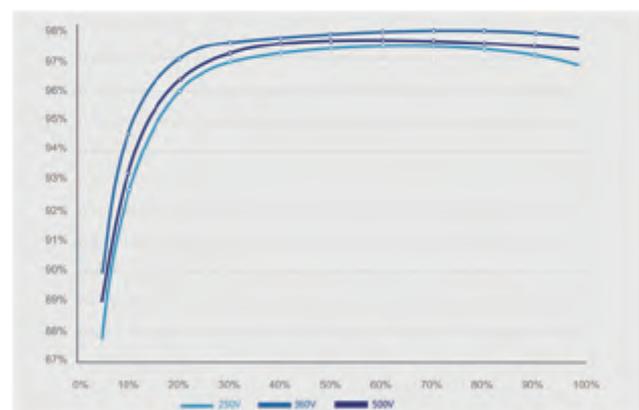
SF 1600/2200/3000 TL



DIAGRAM



EFFICIENCY



Technical Data

| Inverter Model | SF1600TL | SF2200TL | SF3000TL |
|--|--------------------|--------------------|--------------------|
| Input (DC) | | | |
| Max DC power | 1850W | 2550 W | 3450 W |
| Max DC voltage | 550 V | 550 V | 550 V |
| Full load MPPT voltage range /Rated voltage | 120-500V/360V | 170-500V/360V | 210-500V/360V |
| Max input current per MPPT | 13A | 15A | 15A |
| Start voltage / On-grid voltage | 100/120V | 100/120V | 100/120V |
| Number of MPP trackers /Strings per 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 |
| Harmonics(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 | | | |
| Net dimensions (W/H/D) | 386/ 340/ 159 mm | 386/ 340/ 159 mm | 386/ 340/ 159 mm |
| Gross dimensions (W/H/D) | 465/ 435/ 250 mm | 465/ 435/ 250 mm | 465/ 435/ 250 mm |
| Net weight / Gross weight | 13.6/17 kg | 13.9/17 kg | 13.9/17 kg |
| 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) | <0.5 W | <0.5 W | <0.5 W |
| Topology | Transformerless | Transformerless | Transformerless |
| Cooling method | Natural Convection | Natural Convection | Natural Convection |
| Noise (typical) | <30 dB | <30 dB | <30 dB |
| Altitude | <3000m | | |
| Communication:(RS485/WiFi) | Yes/Opt. | Yes/Opt. | Yes/Opt. |
| Warranty: (6 / 10 / 15 years) | Yes/Opt./Opt. | Yes/Opt./Opt. | Yes/Opt./Opt. |