



THREE-phase On-grid Inverter

SUNFLUX 5KW TO 15KW

**SF3X SERIES - ONGRID 5KW
TO 15KW- 3PHASE**

**SF5K3X | SF6K3X | SF8K3X | SF10K3X
SF12K3X | SF15K3X**



User Friendly

- Light and compact design
- Plug and play connectors
- Fast and easy commissioning



High Yield

- Lower startup & wider MPPT voltage
- Compatible with 600W+ PV modules
- 150% DC oversizing & 110% AC overloading output
- Dynamic shading optimization mode



Safe and Durable

- Type II SPD on AC & DC side
- IP66 ingress protection
- Max. Efficiency up to 98.8%
- AFCI protection, proactively reduces fire risk



Smart Management

- PV module-level optimization and safety
- Smart loads management
- 24h monitoring
- Grid fault record function, easy for remote O&M

PV INPUT

Max. PV arraypower	7.5KWp	9KWp	12KWp	15KWp	18KWp	22.5KWp
Max. PV input voltage	1100V					
Operation voltage range	180 ~ 1000 V					
Recomndade MPPT voltage range	650V					
Start up voltage	180V					
No.of MPTrackers	2MPPT					
Strings per MPTracker	1 Input					
Max. input current per MPPT	20A					
Max. input short circuit current per MPPT	26A					

AC OUTPUT

Rated output power	5000W	6000W	8000W	10000W	12000W	15000W
Max. output apparent power	5.5KVA	6.6KVA	8.8KVA	11KVA	13.2KVA	16.5KVA
Max. output current	8.5A	10A	13.3A	16.7A	20A	24A
Rated grid voltage	400V					
Rated AC frequency	50 Hz/60 Hz					
Grid frequency range	50 ± 5 Hz / 60 ± 5 Hz					
THD (Under rated power)	<3%					
Power Factor	~ 1 (0.8 lagging to 0.8 leading)					

SYSTEM DATA

Max. efficiency	98.50%					
European efficiency	98%					
Relative humidity	0 ~ 100 % RH (condensing)					
Cooling concept	Smart air cooling					
Operation temperature range	-30 ~ 60°C					
Power consumption (night)	<1W					
Max. operation altitude	4000m					
Display	LCD/LED					
Communication interfaces	WIFI/RS485					

PROTECTION

DC reverse-polarity protection	YES					
short-circuit protection	YES					
Output over current protection	YES					
Output over voltage protection	YES					
Insulation resistance monitoring	YES					
Residual current detection	YES					
Surge protection (DC / AC)	YES					
Grid monitoring	YES					
Islanding protection	YES					
Over temperature protection	YES					
Integrated DC Switch	YES					

MECHANICAL DATA

Ingress protection	Ip66					
Dimensions (W × H × D)	427*429*204mm					
Weight	15KG					

STANDARD

Safety standard/EMC standard	IEC62109, IEC61000, IS16169 & IS16221(BIS)					
Grid connected standard	IEC61727, EN50549, VDE-4105					
Other standard	IEC61683, IEC62116, EN50530, IEC60068					
Warranty	10 years*					