



# THREE-phase On-grid Inverter

## SUNFLUX 70KW TO 136KW

SF3X SERIES - ONGRID 70KW  
TO 136KW- 3PHASE

SF70K3X | SF80K3X | SF100K3X  
SF110K3X | SF1250K3X | SF136K3X



### 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	105KWp	120KWp	150KWp	165KWp	188KWp	204KWp
Max. PV input voltage	1100V					
Operation voltage range	180 ~ 1000 V					
Recomndade MPPT voltage range	650V					
Start up voltage	180V					
No. of MPPT trackers	6MPPT			8MPPT		
strings per MPPT tracker	2/2/1/2/2/1		2/2/1/1/2/2/1/1		3/1/3/1/3/1/3/1	
Max. input current per MPPT	40A					
Max. input short circuit current per MPPT	46A					

#### AC OUTPUT

Rated output power	70KW	80KW	100KW	110KW	125KW	136KW
Max. output apparent power	77KVA	88KVA	110KVA	121KVA	137.5KVA	149.6KVA
Max. output current	112A	128A	160A	176A	196A	210A
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 °C to 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)	1050*620*333mm
Weight	85KG

#### 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*