



THREE-phase On-grid Inverter

SUNFLUX 20KW TO 60KW

SF3X SERIES - ONGRID 20KW
TO 60KW- 3PHASE

SF20K3X | SF25K3X | SF30K3X | SF40K3X
SF50K3X | SF60K3X



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	30KWp	37.5KWp	45KWp	60KWp	75KWp	90KWp
Max. PV input voltage	1100V					
Operation voltage range	180 ~ 1000 V					
Recomndade MPPT voltage range	650V					
Start up voltage	180V					
No.of MPPTtrackers	2MPPT	3MPPT	4MPPT	4MPPT	4MPPT	4MPPT
Strings per MPPTtracker	2/2	2/2/1	2/2/1/1	2/2/1/1	2/2/1/1	3/1/3/1
Max. input current per MPPT	40A					
Max. input short circuit current per MPPT	46A					

AC OUTPUT

Rated output power	20KW	25KW	30KW	40KW	50KW	60KW
Max. output apparent power	22KVA	27.5KVA	33KVA	44KVA	55KVA	66KVA
Max. output current	32A	41A	48A	65A	80A	96A
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*450*204*mm	610*564*218*mm
Weight	18KG	37KG

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*