

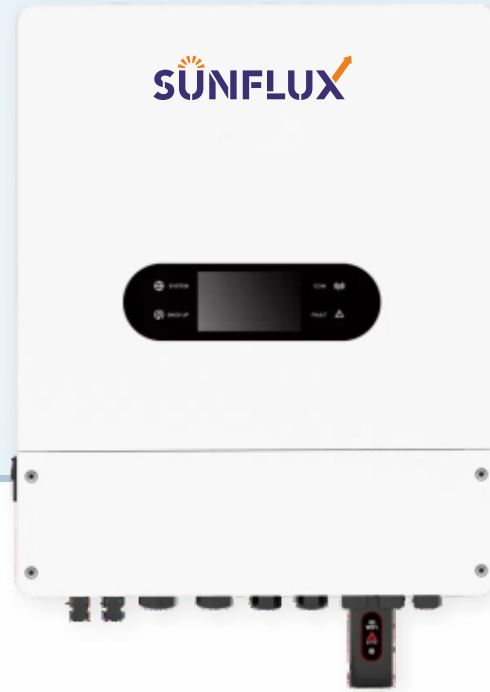


Three-phase Hybrid Inverter

SUNFLUX 5KW TO 20KW

SF3HX SERIES - Hybrid 5KW
TO 20KW - 3PHASE

SF5K3HX | SF6K3HX | SF7K3HX | SF8K3HX
SF10K3HX | SF12K3HX | SF15K3HX | SF20K3HX



Smart Management

- Integrated AI energy management with generator & Smart loads
- Cloud monitoring and operations & maintenance
- Global MPP scan for optimal energy harvest



Assured Reliability

- Battery terminal temperature detection
- IP66 ingress protection
- Type II SPD on AC&DC side



High Performance

- 200% oversizing and 200% PV input power
- Max. 36A PV input per MPPT
- Low start-up voltage for higher energy harvest
- Up to 200% EPS output for 10s
- Single unit UPS-level switchover time < 4 ms



Flexible Adaptability

- Compatible with multiple third-party batteries
- Micro-grid and generator function for versatile operations
- Max. 10 pcs parallel for on-grid and off-grid

BATTERY INPUT DATA

Battery Type	Lithium or Lead acid battery							
Rated Battery Voltage	48V							
Maximum Charging Voltage	<60V (Configurable)							
Maximum Charge/Discharge Current	120A	125A	150A	190A	210A	250A	300A	350A

PV INPUT DATA

Maximum DC Input power	10KW	12KW	14KW	16KW	20KW	24KW	30KW	40KW
Maximum DC Input Voltage	1000V							
MPPT Operating Voltage range	2000 ~ 800 V							
Starting Voltage	150V							
Maximum Input Current	18	18	18	18/18	36/18	36/18	36/36/36/36	36/36/36/36
MPPT number	1	1	1	2	2	2	4	4

AC OUTPUT PARAMETERS (ON-GRID)

Maximum output apparent power	5500W	6600W	7700W	8800W	1100W	13200W	16500W	22000W
Rated output voltage	380V/400V							
Rated output frequency	50Hz/60Hz							
Max output Current	8.3A	10A	11.6A	13.3A	16.7A	20A	25A	33.3A
Output Power factor	~ 1 (0.8 lagging to 0.8 leading)							

AC OUTPUT PARAMETERS (OFF-GRID)

Rated output apparent power	5500W	6600W	7700W	8000W	10000W	12000W	15000W	20000W
Maximum output apparent power	>200%,15sec							
Rated output voltage	380V/400V							
Rated output frequency	50Hz/60Hz							
Max output Current	8.3A	10A	11.6A	13.3A	16.7A	20A	25A	33.3A

EFFICIENCY

Max efficiency	97.60%							
Max efficiency	94.50%							
Europe efficiency	97%							

PROTECTION

PV input reverse polarity protection	YES							
PV insulation resistance detection	YES							
Residual current detection	YES							
Output over current protection	YES							
Output short circuit protection	YES							
Output over voltage protection	YES							

BASIC DATA

Operation temperature	-25 ~ 60°C (> 45°C derating)							
Storage temperature	-25 ~ 60°C							
Relative humidity	0-95%							
Working altitude	<2000							
Cooling	Smart air cooling							
Noise	<55db							
Weight	38KG						41KG	
Dimensions (W*H*D)	475*683*256mm						539*696*232mm	
Protection class	Ip66							
Topology	HF Isolation (Battery side)							

STANDARD

Safety standard/EMC standard	IEC62109, IEC61000, IS16169 & IS16221(BIS)							
Grid connected standard	IEC61727, EN50549, VDE-4105							
Other standard	IEC61683, IEC62116, EN50530, IEC60068							
Warranty	5 years*							