



Growatt SPF3000/5000 series is perfect for off-grid, backup power and self-consumption applications. It has a pure sine wave output with switchable 50/60Hz frequencies, providing power for every need. For increasing off-grid capacity, the SPF3000/5000 can be wired in parallel up to 6. Also by stacking two charge controller units will double the system's charging power to compatible with larger capacity battery.

Leading - edge Technology

Friendly

- ▶ Local graphical LCD and four buttons
- ▶ Compact design, 12.5KG@482*450*140 mm
- ▶ Source priority to charge battery and power load are programmable

Scalable

- ▶ Maximum number of units in parallel is up to 6
- ▶ Suitable for single phase and three phase system
- ▶ Charging power is increasable by adding expansion charge controller unit

Smart

- ▶ Built-in two MPPT charge controllers for more yields
- ▶ Compatible with lead-acid and lithium battery
- ▶ Support utility grid and generator voltage input

GROWATT NEW ENERGY TECHNOLOGY Co.,LTD

A: No.28 Guangming Road, Longteng Community, Shiyan, Baoan District, Shenzhen, P.R.China.

T: + 86 755 2747 1900 F: + 86 755 2749 1460 E: info@ginverter.com

Datasheet	Growatt SPF3000	Growatt SPF5000
DC input		
PV input voltage range	60-115VDC	60-115VDC
Max. input voltage	150VDC	150VDC
Number of MPPT	2	2
Max. input power	3500W	3500W
Max. solar charge current	70A	70A
AC output		
Rated input voltage	230Vac	230Vac
Input voltage range	170-270Vac(UPS), 90-280Vac(APL)	170-270Vac(UPS), 90-280Vac(APL)
Max. input voltage	300Vac	300Vac
Rated input frequency	50Hz/60Hz	50Hz/60Hz
Input frequency range	40-65Hz	40-65Hz
Switching time	10ms(UPS) 20ms(APL)	10ms(UPS) 20ms(APL)
Max. AC charge current	60A	60A
Battery		
Battery type	Lithium/Lead-acid	Lithium/Lead-acid
Rated voltage	48VDC	48VDC
Voltage range	46.4-57.4V/38.4-60V	46.4-57.4V/38.4-60V
Max. charging current	66A/130A	66A/130A
Max. charging voltage	57.4V	57.4V
Floating charging Voltage	Programmable/53.5V	Programmable/53.5V
Equalizing charging Voltage	Programmable/56.5V	Programmable/56.5V
Inverter		
Rated output power	2.4KW(3KVA)	4KW(5KVA)
Rated output voltage	230VAC/208VAC/240VAC	230VAC/208VAC/240VAC
Rated output frequency	50Hz/60Hz	50Hz/60Hz
THDi	≤3%	≤3%
PF	0.8	0.8
Max. efficiency	93.5%	93.5%
Protection		
Overvoltage protection	yes	yes
Undervoltage protection	yes	yes
Overload protection	yes	yes
Output short circuit protection	yes	yes
DC(battery) reverse polarity protection	yes	yes
Over temperature protection	yes	yes
General Data		
Dimension (D*W*H) in mm	482*450*140	482*450*140
Weight	12.5kg	13.5kg
Noise emission	≤48dB	≤48dB
Operating temperature range	-10℃ ~ +55℃	-10℃ ~ +55℃
Storage temperature range	-15℃ ~ +65℃	-15℃ ~ +65℃
Humidity	0~90%(non-condensing)	0~90%(non-condensing)
Attitude	≤6000 m	≤6000 m
Standby power consumption	2W	2W
Communication interface	RS232/RF/GPRS/Wi-Fi	RS232/RF/GPRS/Wi-Fi
Warranty	3 years	3 years
Certificates and Approvals		

GB/T19064-2003, GB/T20321.1-2006, GB20321.2-2006, EN62040-1, 2008+A1, 2013, EN 61000