



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. Also by adding solar charger controller will double the PV input power to compatible with larger capacity battery.

Leading - edge Technology

Friendly

- ▶ Local graphical LCD and four buttons
- ▶ Compact design, 12.5KG@470*440*120 mm
- ▶ Source priority to charge battery and power load are programmable

Smart

- ▶ Dual MPPT design for more yields
- ▶ Compatible with lead-acid and lithium battery
- ▶ Support utility grid and generator voltage input

Scalable

- ▶ Charging power of solar is increasable by expanding solar charger controller

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Datasheet	Growatt SPF3000	Growatt SPF3000 PLUS	Growatt SPF5000
DC input			
PV array MPPT voltage range	60-115VDC	60-115VDC	60-115VDC
Max. PV array open circuit voltage	145VDC	145VDC	145VDC
Number of MPP tracker/strings per tracker	2/1	2/1	2/1
Max. input power	3500W	3500W	3500W
Max. solar charge current	35A/35A	35A/35A	35A/35A
AC input			
Rated input voltage	230Vac	230Vac	230Vac
Input voltage range	170-280Vac(UPS), 90-280Vac(APL)	170-280Vac(UPS), 90-280Vac(APL)	170-280Vac(UPS), 90-280Vac(APL)
Max. input voltage	300Vac	300Vac	300Vac
Rated input frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Input frequency range	40-65Hz	40-65Hz	40-65Hz
Switching time	10ms(UPS) 20ms(APL)	10ms(UPS) 20ms(APL)	10ms(UPS) 20ms(APL)
Max. AC charge current	30A	30A	60A
AC output			
Rated output power	2.4KW(3KVA)	3KW(3KVA)	4KW(5KVA)
Rated output voltage	230VAC(default)/208VAC/240VAC	230VAC(default)/208VAC/240VAC	230VAC(default)/208VAC/240VAC
Rated output frequency	50Hz(default)/60Hz	50Hz(default)/60Hz	50Hz(default)/60Hz
Surge power	10s(110%-150%)5s(150%-200%)	10s(110%-150%)5s(150%-200%)	10s(110%-150%)5s(150%-200%)
Battery			
Battery type	Lithium/Lead-acid	Lithium/Lead-acid	Lithium/Lead-acid
Rated voltage	48VDC	48VDC	48VDC
Voltage range	46.4-57.4V/38.4-60V	46.4-57.4V/38.4-60V	46.4-57.4V/38.4-60V
Max. charging current	100A	100A	130A
Max. charging voltage	57.4V	57.4V	57.4V
Max. efficiency	93.5%	93.5%	93.5%
Standby power consumption	2W	2W	2W
Protection			
Overvoltage protection	yes	yes	yes
Undervoltage protection	yes	yes	yes
Overload protection	yes	yes	yes
Output short circuit protection	yes	yes	yes
Over temperature protection	yes	yes	yes
General Data			
Dimension (D*W*H) in mm	440*390*120	470*440*120	470*440*120
Weight	10kg	12.5kg	12.5kg
Noise emission	≤48dB	≤48dB	≤48dB
Operating temperature range	0°C ~ +55°C	0°C ~ +55°C	0°C ~ +55°C
Storage temperature range	-15°C ~ +60°C	-15°C ~ +60°C	-15°C ~ +60°C
Humidity	5~90%(non-condensing)	5~90%(non-condensing)	5~90%(non-condensing)
Attitude	2000 m	2000 m	2000 m
Communication interface	RS232/GPRS/WiFi	RS232/GPRS/WiFi	RS232/GPRS/WiFi
Warranty	3 years	3 years	3 years