



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. SPF3000/5000 can be wired in parallel up to 6 for increasing PV plant size. Also by adding solar MPPT 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

- ▶ Maximum number of units in parallel is up to 6
- ▶ Suitable for single phase and three phase system
- ▶ Charging power of solar is increasable by expanding solar MPPT charger controller

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Datasheet**Growatt SPF3000****Growatt SPF5000****DC input**

PV array MPPT voltage range
 Max. PV array open circuit voltage
 Number of MPP tracker/strings per tracker
 Max. input power
 Max. solar charge current

60-115VDC
 145VDC
 2/1
 3500W
 70A

60-115VDC
 145VDC
 2/1
 3500W
 70A

AC input

Rated input voltage
 Input voltage range
 Max. input voltage
 Rated input frequency
 Input frequency range
 Switching time
 Max. AC charge current

230Vac
 170-280Vac(UPS), 90-280Vac(APL)
 300Vac
 50Hz/60Hz
 40-65Hz
 10ms(UPS) 20ms(APL)
 30A

230Vac
 170-280Vac(UPS), 90-280Vac(APL)
 300Vac
 50Hz/60Hz
 40-65Hz
 10ms(UPS) 20ms(APL)
 60A

AC output

Rated output power
 Rated output voltage
 Rated output frequency
 Surge power

2.4KW(3KVA)
 230VAC(default)/208VAC/240VAC
 50Hz(default)/60Hz
 10s(110%-150%)5s(150%-200%)

4KW(5KVA)
 230VAC(default)/208VAC/240VAC
 50Hz(default)/60Hz
 10s(110%-150%)5s(150%-200%)

Battery

Battery type
 Rated voltage
 Voltage range
 Max. charging current
 Max. charging voltage
 Max. efficiency
 Standby power consumption

Lithium/Lead-acid
 48VDC
 46.4-57.4V/38.4-60V
 100A
 57.4V
 93.5%
 2W

Lithium/Lead-acid
 48VDC
 46.4-57.4V/38.4-60V
 130A
 57.4V
 93.5%
 2W

Protection

Ovoltage protection
 Undervoltage protection
 Overload protection
 Output short circuit protection
 Over temperature protection

yes
 yes
 yes
 yes
 yes

yes
 yes
 yes
 yes
 yes

General Data

Dimension (D*W*H) in mm
 Weight
 Noise emission
 Operating temperature range
 Storage temperature range
 Humidity
 Attitude
 Communication interface
 Warranty

470*440*120
 12.5kg
 ≤48dB
 -10°C ~ +55°C
 -15°C ~ +60°C
 5~90%(non-condensing)
 2000 m
 RS232/RF/3G/WiFi
 3 years

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Certificates and Approvals

CE