



Growatt SPF5000-P 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. SPF5000-P can be wired in parallel up to 3 for increasing PV plant size. 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

Scalable

- ▶ Maximum number of units in parallel is up to 3
- ▶ Charging power of solar is increasable by expanding solar charger controller

Smart

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

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Datasheet

Growatt SPF5000-P

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
35A/35A

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)
60A

AC output

Rated output power
Rated output voltage
Rated output frequency
Surge power

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

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

Protection

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

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
0°C ~ +55°C
-15°C ~ + 60°C
5~90%(non-condensing)
2000 m
RS232/GPRS/WiFi
3 years

Certificates and Approvals