

Leading - edge Technology

- ▶ Rated power 8kw to 12kw
- ▶ Pure sine wave output
- ▶ Smart LCD setting(Working modes, Charge Current, Chargevoltage, etc.)
- ▶ Built-in MPPT solar charge controller 60A/120A
- ▶ MPPT efficiency max 98%
- ▶ Powerful charge rate up to 100Amp (120A optional)
- ▶ Built-in pure copper UI transformer
- ▶ DC start &Automatic Self-Diagnostic Function
- ▶ RS485 monitoring function with free CD
- ▶ Supporting AGS, BTS portWIFI/GPRS remote monitoring (optional)
- ▶ Compatible to generator



Growatt SPF Series

Growatt SPF series (8KW~12KW) off grid inverter is a multifunctional machine which is combined functions of inverter and mppt solar charge controller. Solar charging and utility grid charging together provide uninterruptible power supply. The comprehensive LCD display controller gives configurable and easily accessible operation such as battery charging current, AC/solar charger priority, and selectable input voltage based on different applications.

Datasheet	Growatt SPF 8000T HVM	Growatt SPF 10000T HVM	Growatt SPF 12000T HVM
Battery voltage	48VDC	48VDC	48VDC
INVERTER OUTPUT			
Rated Power	8KW	10KW	12KW
Surge Rating (20ms)	24KW	30KW	36KW
Capable of Starting Electric Motor	4HP	5HP	6HP
Waveform	Pure sine wave/ same as input (bypass mode)	Pure sine wave/ same as input (bypass mode)	Pure sine wave/ same as input (bypass mode)
Nominal Output Voltage RMS	220V/230V/240VAC(+/-10% RMS)	220V/230V/240VAC(+/-10% RMS)	220V/230V/240VAC(+/-10% RMS)
Output Frequency	50Hz/60Hz +/-0.3 Hz	50Hz/60Hz +/-0.3 Hz	50Hz/60Hz +/-0.3 Hz
Inverter Efficiency(Peak)	>88%	>88%	>88%
SOLAR CHARGER			
Maximum PV Charge Current	80A(160A Optional)	80A(160A Optional)	80A(160A Optional)
DC Voltage	48V	48V	48V
Maximum PV Array Power	4500W (9000W for 160A Optional)	4500W (9000W for 160A Optional)	4500W (9000W for 160A Optional)
MPPT Range @ Operating Voltage(VDC)	64~147VDC	64~147VDC	64~147VDC
Maximum PV Array Open Circuit Voltage	147VDC	147VDC	147VDC
Maximum Efficiency	>98%	>98%	>98%
Standby Power Consumption	<2W	<2W	<2W
AC INPUT			
Voltage	230VAC	230VAC	230VAC
Selectable Voltage Range	154~272VAC(For Personal Computers)	154~272VAC(For Personal Computers)	154~272VAC(For Personal Computers)
Frequency Range	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)
AC CHARGER			
Charger AC Input Breaker Rating	40A	50A	60A
Overcharge Protection S.D.	31.4VDC for 24VDC mode (62.8VDC for 48VDC mode)	31.4VDC for 24VDC mode (62.8VDC for 48VDC mode)	31.4VDC for 24VDC mode (62.8VDC for 48VDC mode)
BTS			
Continuous Output Power	Yes, variances in charging voltage & S.D. voltage based on the battery temperature		
BYPASS & PROTECTION			
Typical Transfer Time	10ms(max)	10ms(max)	10ms(max)
MECHANICAL SPECIFICATIONS			
Dimensions (W*H*D)	670*410*215mm	670*410*215mm	670*410*215mm
Net Weight (Solar CHG) kg	70	76	76
OPERATING ENVIRONMENT			
Operation Temperature Range	0°C to 40°C	0°C to 40°C	0°C to 40°C