

Leading - edge Technology

- ► Rated power 1KW to 5KW
- ► PWM solar charge controller
- ► High frequency inverter with small size and light weight Pure sine wave AC output
- Overload, short circuit and deep discharge protection
- Configurable AC/ solar input priority via LCD setting
- Compatible to mains voltage or generator power
- WIFI/ GPRS remote monitoring (optional)
- ► Parallel operation available for Growatt SPF 4KW/5KW



Growatt SPF Series

Growatt SPF series off grid solar inverter is integrated with a PWM solar charge controller, a high frequency pure sine wave inverter and a UPS function module in one machine, which is perfect for off grid backup power and self-consumption applications. The transformerless design provides reliable power conversion in compact size. Besides, it's worry-free to start up motor-type loads such as motors, water pumps, and compressors as well as the common home device. Growatt SPF 4KW/5KW can be wired in parallel to increase the output capacity.



Datasheet	Growatt SPF 1000TL HVP	Growatt SPF 2000TL HVP	Growatt SPF 3000TL HVP	Growatt SPF 4000TL HVP	Growatt SPF 5000TL HVP
Battery voltage	12VDC	24VDC	24VDC	48VDC	48VDC
INVERTER OUTPUT					
RATED POWER	1000VA/ 1000W	2000VA/ 2000W	3000VA/ 3000W	4000VA/ 4000W	5000VA/ 5000W
Parallel Capability	No	No	No	Yes, 6 units	Yes, 6 units
AC Voltage Regulation (Battery Mode)	230VAC ± 5% @ 50/60Hz	230VAC ± 5% @ 50/60Hz	230VAC ± 5% @ 50/60Hz	230VAC ± 5% @ 50/60Hz	230VAC ± 5% @ 50/60Hz
Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA
Efficiency (Peak) Waveform	90%	93%	90%	93%	90%
SOLAR CHARGER					
Maximum PV Array Power	900W	1800W	1800W	3600W	3600W
Maximum PV Array Open Circuit Voltage	50VDC	75VDC	75VDC	90VDC	90VDC
Maximum Solar Charge Current	50A	50A	50A	50A	50A
Standby Power Consumption	1W	2 W	2 W	5 W	5W
AC CHARGER					
Charge Current	20A	30A	30A	60A	60A
AC Input Voltage	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)				
Frequency Range	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)
AC BYPASS					
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)				
PHYSICAL					
Dimension, D x W x H (mm)	120x315x390	120x315x390	120x315x390	130x350x445	130x350x445
Net Weight (kgs)	6	8	8	14.5	14.5
OPERATING ENVIRONMENT					
Humidity	5% to 95% Relative Humidity(Non-condensing)	5% to 95% Relative Humidity(Non-condensing)	5% to 95% Relative Humidity(Non-condensing)	5% to 95% Relative Humidity(Non-condensing)	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	0°C − 55°C	0°C − 55°C	0°C − 55°C	0°C − 55°C	0°C − 55°C
Storage Temperature	-15°C − 60°C	-15°C − 60°C	-15°C − 60°C	-15℃ - 60℃	-15°C − 60°C