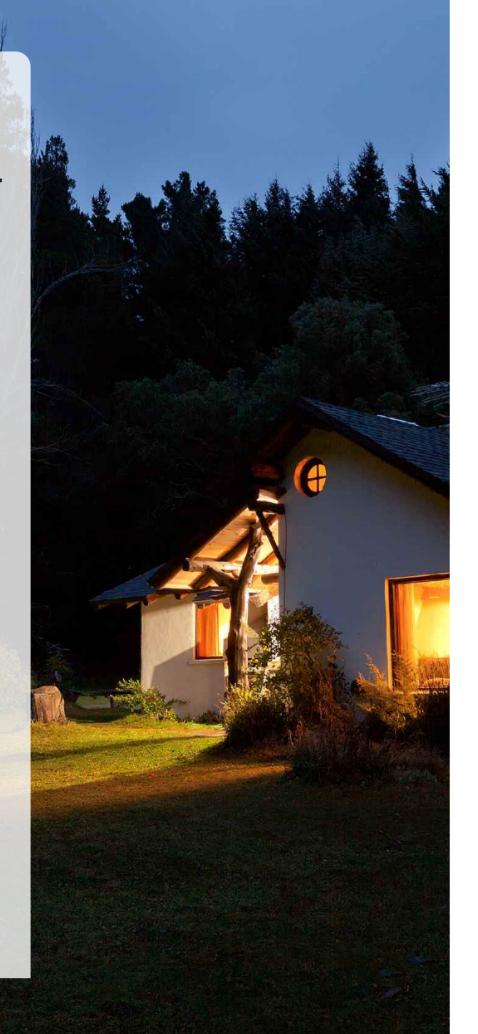
Growatt SPF 2000~5000TL HVM



Growatt SPF series off grid solar inverter is integrated with a MPPT 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

- Integrated MPPT charge controller
- Configurable grid or solar input priority
- · Optional WIFI/ GPRS remote monitoring
- · Parallel for scalability



GROWATT · PRODUCT

Parallel Capability No No No No Yes, 6 units Ves, 6 units Ac, 6 units AC Voltage Regulation 230VAC ± 5% 230VAC ± 5% 230VAC ± 5% 250VAC ± 250VA	Datasheet	SPF 2000TL HVM	SPF 3000TL HVM	SPF 3000TL HVM-48	SPF 4000TL HVM	SPF 5000TL HVM		
Part Power 2000/W 2000W 3000W 3000W 3000W 4000W 4000W 5000W 5000W Part For F	Battery voltage	24VDC	24VDC	48VDC	48VDC	48VDC		
Part Power 2000/W 2000W 3000W 3000W 3000W 4000W 4000W 5000W 5000W Part For F								
Parallel Capability No No No No Yes, 6 units Ves, 6 units Ac, 6 units AC Voltage Regulation 230VAC ± 5% 230VAC ± 5% 230VAC ± 5% 250VAC ± 250VA	INVERTER OUTPUT							
AC Volitage Regulation (Battery Mode) (Bottery Mode	RATED POWER	2000VA/ 2000W	3000VA/ 3000W	3000VA/ 3000W	4000VA/ 4000W	5000VA/ 5000W		
Battlery Modes @ 50/60Hz	Parallel Capability	No	No	No	Yes, 6 units	Yes, 6 units		
Efficiency (Peak) 93% 90% 93% 93% 93% 90% Waveform Pure sine wave								
Waveform Pure sine wave Pure sine wav	Surge Power	4000VA	6000VA	6000VA	8000VA	10000VA		
SOLAR CHARGER	Efficiency (Peak)	93%	90%	93%	93%	90%		
SOLAR CHARGER Maximum PV Array Power 1000W 1000W 2400W 4500W 4500W 4500W MIPPT Range @ Operating Voltage 30VDC ~ 80VDC 30VDC ~ 80VDC 60VDC ~ 115VDC	Waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave		
Maximum PV Array Power 1000W 1000W 2400W 4500W 4500W MPPT Range @ Operating Voltage 30VDC ~ 80VDC 30VDC ~ 80VDC 60VDC ~ 115VDC 60VDC ~ 115VDC 60VDC ~ 115VDC Maximum PV Array Open Circuit Voltage 100VDC 100VDC 145VDC 145VDC 145VDC 145VDC Maximum Solar Charge Current 40A 40A 40A 80A 80A Maximum Efficiency 97% 97% 97% 97% 97% Standby Power Consumption 2 W 2 W 2 W 2 W 2 W AC CHARGER Charge Current 30A 30A 15A 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) 50Hz/60Hz (Auto sensing) 50Hz/60H	Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)						
Maximum PV Array Power 1000W 1000W 2400W 4500W 4500W MPPT Range @ Operating Voltage 30VDC ~ 80VDC 30VDC ~ 80VDC 60VDC ~ 115VDC 60VDC ~ 115VDC 60VDC ~ 115VDC Maximum PV Array Open Circuit Voltage 100VDC 100VDC 145VDC 145VDC 145VDC 145VDC Maximum Solar Charge Current 40A 40A 40A 80A 80A Maximum Efficiency 97% 97% 97% 97% 97% Standby Power Consumption 2 W 2 W 2 W 2 W 2 W AC CHARGER Charge Current 30A 30A 15A 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) 50Hz/60Hz (Auto sensing) 50Hz/60H								
MPPT Range @ Operating Voltage 30VDC ~ 80VDC 30VDC ~ 80VDC 60VDC ~ 115VDC 115VDC 60VDC ~ 115VDC 60VDC ~ 115VDC 115VDC 60VDC ~ 115VDC 115VDC 60VDC ~ 115VDC 60VDC ~ 115VDC 115VDC 60VDC ~ 115VDC 115VDC <td>SOLAR CHARGER</td> <td></td> <td></td> <td></td> <td></td> <td></td>	SOLAR CHARGER							
Maximum PV Array Open Clicuit Voltage 100VDC 145VDC 145VDC 145VDC Maximum Solar Charge Current Maximum Efficiency 40A 40A 40A 80A 80A Maximum Efficiency 97% 97% 97% 97% 97% Standby Power Consumption 2 W 2 W 2 W 2 W 2 W AC CHARGER Charge Current 30A 30A 15A 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) 50Hz/60Hz (Auto sensing) 50Hz/60Hz (Auto	Maximum PV Array Power	1000W	1000W	2400W	4500W	4500W		
Circuit Voltage 1000C 1000C 145V0C 14	MPPT Range @ Operating Voltage	30VDC ~ 80VDC	30VDC ~ 80VDC	60VDC ~ 115VDC	60VDC ~115VDC	60VDC ~115VDC		
Maximum Efficiency 97% 97% 97% 97% 97% 97% 97% 97% 97% 97%		100VDC	100VDC	145VDC	145VDC	145VDC		
Standby Power Consumption 2 W <td>Maximum Solar Charge Current</td> <td>40A</td> <td>40A</td> <td>40A</td> <td>80A</td> <td>80A</td>	Maximum Solar Charge Current	40A	40A	40A	80A	80A		
AC CHARGER Charge Current 30A 30A 15A 60A 60A AC Input Voltage 230 VAC 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 sen	Maximum Efficiency	97%	97%	97%	97%	97%		
Charge Current 30A 30A 15A 60A 60A AC Input Voltage 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 s	Standby Power Consumption	2 W	2 W	2 W	2 W	2 W		
Charge Current 30A 30A 15A 60A 60A AC Input Voltage 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 s								
AC Input Voltage 230 VAC Selectable Voltage Range 170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances) Frequency Range 50Hz/60Hz (Auto sensing) 50	AC CHARGER							
Selectable Voltage Range 170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances) Frequency Range 50Hz/60Hz (Auto sensing)	Charge Current	30A	30A	15A	60A	60A		
Frequency Range 50Hz/60Hz (Auto sensing) 50Hz/	AC Input Voltage	230 VAC	230 VAC	230 VAC	230 VAC	230 VAC		
PHYSICAL Dimension (D/W/H) in mm 120/315/390 120/315/390 120/315/390 130/350/455 130/350/455	Selectable Voltage Range	170-280 VAC (For Personal Computers); 90-280 VAC (For Home Appliances)						
Dimension (D/W/H) in mm 120/315/390 120/315/390 120/315/390 130/350/455 130/350/455	Frequency Range	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensir		
	PHYSICAL							
Net Weight (kgs) 7 8 8 14.5 14.5	Dimension (D/W/H) in mm	120/315/390	120/315/390	120/315/390	130/350/455	130/350/455		
	Net Weight (kgs)	7	8	8	14.5	14.5		

OPERATING ENVIRONMENT	T				
Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operating Temperature	0°C - 55°C				
Storage Temperature	-15°C - 60°C				