

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

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Datasheet	SPF 2000TL HVM	SPF 3000TL HVM	SPF 3000TL HVM-48	SPF 4000TL HVM	SPF 5000TL HVM
Battery voltage	24VDC	24VDC	48VDC	48VDC	48VDC
INVERTER OUTPUT					
RATED POWER	2000VA/ 2000W	3000VA/ 3000W	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	4000VA	6000VA	6000VA	8000VA	10000VA
Efficiency (Peak)	93%	90%	93%	93%	90%
Waveform	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave	Pure sine wave
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)				
SOLAR CHARGER					
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
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)				
Frequency Range	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)	50Hz/60Hz (Auto sensing)
PHYSICAL					
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					
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°C - 60°C	-15°C - 60°C