

# SPF 3000~5000TL HVM

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



**Growatt**  
POWERING TOMORROW

[www.ginverter.com](http://www.ginverter.com)

P O W E R  
- I N G O  
T O M O -  
R R O W O

Datasheet	SPF 3000TL HVM-24	SPF 3000TL HVM-48	SPF 5000TL HVM/HVM-P
Battery voltage	24VDC	48VDC	48VDC
Battery type	Lead-acid	Lithium/Lead-acid	Lithium/Lead-acid
INVERTER OUTPUT			
RATED POWER	3000VA/ 3000W	3000VA/ 3000W	5000VA/ 5000W
Parallel Capability	No	No	Yes, 6 units maximum
AC Voltage Regulation (Battery Mode)	230VAC ± 5% @ 50/60Hz	230VAC ± 5% @ 50/60Hz	230VAC ± 5% @ 50/60Hz
Surge Power	6000VA	6000VA	10000VA
Efficiency (Peak)	93%	93%	93%
Waveform	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	1500W	1800W	4500W
MPPT Range @ Operating Voltage	30VDC ~ 80VDC	60VDC ~ 115VDC	60VDC ~ 115VDC
Maximum PV Array Open Circuit Voltage	102VDC	145VDC	145VDC
Maximum Solar Charge Current	50A	30A	80A
Maximum Efficiency	98%	98%	98%
AC CHARGER			
Charge Current	30A	15A	60A
AC Input Voltage	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)
PHYSICAL			
Dimension (D/W/H) in mm	130/315/400	130/315/400	130/350/455
Net Weight (kgs)	8.5	8.5	11.5
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non-condensing)	5% to 95% Relative Humidity(Non-condensing)	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	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