

# Growatt SPF 2000~5000TL HVM

- 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-24	SPF 3000TL HVM-24	SPF 2000TL HVM-48	SPF 3000TL HVM-48	SPF 5000TL HVM/HVM-P
Battery Voltage	24VDC		48VDC		
Battery Type	Lithium/Lead-acid				
<b>INVERTER OUTPUT</b>					
Rated Power	2000VA/ 2000W	3000VA/ 3000W	2000VA/ 2000W	3000VA/ 3000W	5000VA/ 5000W
Parallel Capability	No				No/ Yes, 6 units maximum
AC Voltage Regulation (Battery Mode)	230VAC $\pm$ 5% @ 50/60Hz				
Surge Power	4000VA	6000VA	4000VA	6000VA	10000VA
Efficiency (Peak)	93%				
Waveform	Pure sine wave				
Transfer Time	10ms typical, 20ms Max				
<b>SOLAR CHARGER</b>					
Maximum PV Array Power	1500W		1800W		4500W
MPPT Range @ Operating Voltage	30VDC ~ 80VDC		60VDC ~ 115VDC		
Maximum PV Array Open Circuit Voltage	102VDC		145VDC		
Number of Independent MPP Trackers/ Strings Per MPP Tracker	1/1				
Maximum Solar Charge Current	50A		30A		80A
Maximum Efficiency	98%				
<b>AC CHARGER</b>					
Charge Current	30A		15A		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)				
<b>PHYSICAL</b>					
Protection Degree	IP20				
Dimension (W/H/D)	315/400/130mm				350/455/130mm
Net Weight (kgs)	8	8.5	8	8.5	11.5
<b>OPERATING ENVIRONMENT</b>					
Humidity	5% to 95% Relative Humidity(Non-condensing)				
Altitude	<2000m				
Operating Temperature	0°C - 55°C				
Storage Temperature	-15°C - 60°C				