

SPF 3000~5000TL 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 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 \pm 5% @ 50/60Hz	230VAC \pm 5% @ 50/60Hz	230VAC \pm 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

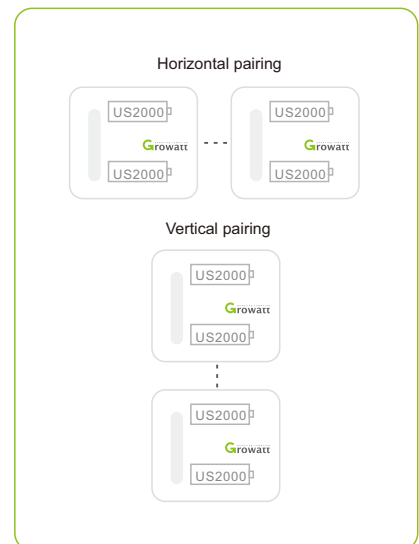
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Battery Case



Growatt low voltage battery cabinet parameters

Battery type	Growatt US2000, 2.4kWh
Battery scalability	2PCS each box
Cabinet scalability	Vertical or horizontal maximum four cabinets
Installation	Wall mounted
Size	650x550x245mm (W*H*D)
Weight	12kg cabinet only
IP rating	IP55
Working temperature	0-45°C
Parallel cables*	Optional



* 1. The parallel cables between 2 battery cases are optional
 2. The parallel cables between 2 battery modules are standard, and inside each battery module package.

Battery Data

Nominal Voltage	48V
Normal Capacity	2400Wh
Usable Capacity	2200Wh
Discharge Voltage	45 ~ 53.5V
Charge Voltage	52.5 ~ 53.5V
Charge/Discharge Current	≤25A (Recommended) 50A (Max) 100A (Peak@15sec)

General Data

Dimension (mm)	440*410*88.5mm
Weight	24Kg
Working temperature	0°C~50°C
Storage Temperature	-20°C~60°C

Features

Design Life	10 Years (25°C/77°F)
Cycle Life	> 6000 (25°C)
Single string quantity	8pcs
Communication Port	CAN / RS485

TÜV , CE , UN38.3