

# SPF 3000~5000 ES

- Integrated MPPT charge controller.
- Equalization charging function.
- Work with or without battery
- PV input voltage up to 450VDC.
- Configurable grid or solar input priority.
- Optional WIFI/GPRS remote monitoring
- Support parallel operation for capacity expansion up to 30kW.
- PV and grid power the load jointly if PV energy is unsufficient.
- Flexibly schedule the Inverter charging and discharging time.



**GROWATT**

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

Datasheet	SPF 3000 ES	SPF 3500 ES	SPF 5000 ES
Battery Voltage		48VDC	
Battery Type		Lithium/Lead-acid	
INVERTER OUTPUT			
Rated Power	3000VA/ 3000W	3500VA/ 3500W	5000VA/ 5000W
Parallel Capability	NO	Yes, 6 units maximum	
AC Voltage Regulation (Battery Mode)		230VAC ± 5% @ 50/60Hz	
Surge Power	60000VA	7000VA	10000VA
Efficiency (Peak)		93%	
Waveform		Pure sine wave	
Transfer Time		10ms typical, 20ms Max	
SOLAR CHARGER			
Maximum PV Array Power	4000W	4500W	6000W
MPPT Range @ Operating Voltage		120VDC ~ 430VDC	
Number of Independent MPP Trackers/ Strings Per MPP Tracker		1/1	
Maximum PV Array Open Circuit Voltage		450VDC	
Maximum Solar Charge Current	60A	80A	100A
AC CHARGER			
Charge Current		60A	80A
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)	
PHYSICAL			
Protection Degree		IP20	
Dimension (W/H/D)		330/485/135mm	
Net Weight	11.5kg	11.5kg	12kg
OPERATING ENVIRONMENT			
Humidity		5% to 95% Relative Humidity(Non-condensing)	
Altitude		<2000m	
Operating Temperature		0°C - 55°C	
Storage Temperature		-15°C - 60°C	