

# SPF 3500~5000 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 insufficient.
- Flexibly schedule the Inverter charging and discharging time.



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

**GROWATT**

[en.growatt.com](http://en.growatt.com)

Datasheet	SPF 3500 ES	SPF 5000 ES
Battery voltage	48VDC	
Battery type	Lithium/Lead-acid	
<b>Inverter output</b>		
Rated power	3500VA/ 3500W	5000VA/ 5000W
Parallel capability	Yes, 6 units maximum	
AC voltage regulation (Battery mode)	230VAC ± 5% @ 50/60Hz	
Surge power	7000VA	10000VA
Efficiency (Peak)	93%	
Waveform	Pure sine wave	
Transfer time	10ms typical, 20ms Max	
<b>Solar charger</b>		
Maximum PV array power	4500W	6000W
MPPT Range@operating voltage	120VDC ~ 430VDC	
Number of Independent MPP trackers/ strings per MPP tracker	1/1	
Max. input current per MPP tracker	22A	
Maximum PV array open circuit voltage	450VDC	
Maximum solar charge current	80A	100A
<b>AC charger</b>		
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)	
<b>Physical</b>		
Protection degree	IP20	
Dimension (W/H/D)	330/485/135mm	330/485/135mm
Net weight	11.5kg	12kg
<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	