Datasheet	SPF 6600 ES Lite	SPF 6600 ES Pro
Battery voltage	48VDC	
Battery type	Lithium/Lead-acid	
Inverter output		
Rated power	6600VA/6600W	
Parallel capability	Not support	9 units
AC voltage regulation (battery mode)	230VAC ± 5% @ 50/60Hz	
Surge power	13200VA	
Efficiency (peak)	95%	
Waveform	Pure sine wave	
Transfer time	10ms typical, 20ms Max	
Solar charger		
Max. PV access power	13200W	
Max. PV input power	10800W	
MPPT range @ operating voltage	75VDC ~ 450VDC	
Maximum of PV strings input*	2	
Maximum input current	36A	
Maximum PV array open circuit voltage	500VDC	
Maximum solar charge current	100A	
Start-up PV Voltage	120VDC±10VDC	
AC charger		
Charge current	80A	
AC input voltage	230VAC	
Selectable voltage range	170-280VAC (For personal computers) ; 90-280VAC(For home appliances)	
Frequency range	50Hz/60Hz (Auto sensing)	
Physical		
Protection degree	IP20	
Dimension (W/H/D)	365/275/120mm	
Net weight	7.6kg	
Operating environment		
Humidity	5% to 95% Relative humidity (Non-condensing)	
Altitude	<2000m	
Operating temperature	0℃ - 50℃	
Storage temperature	-20℃ - 60℃	
Warranty	2 years	5 years
CE		

* Support TWO PV strings to be connected in two orientations.

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GROWATT



SPF 6600 ES Lite/Pro

New Generation off-grid PV inverter

Dual-AC Output with Smart-Load Connection

Separate main load and smart-load AC terminals.
Smart-load can be controlledby battery SOC,
PV power or scheduledgrid time,
to cut-off non-priority loads and preserve energy for critical devices.

Generator Backup power

Generator shared the same port with smart load.
Built in dry-contact signal enables automatic generator start,
to extend power supply during low-irradiance periods.

High PV Input Capacity

Supports up to 13200W PV array with max 500VDC PV
open-circuit voltage. Wide MPPT working range 75-450VDC,
makes full use of solar generation for household off-grid application.

Compact Light-Weight Indoor Wall-mount Design

Only 8.5kg for easy indoor wall-mount installation,
suitable for household installation and equipment room deployment.

www.growatt.com

SPF 6600 ES Lite/Pro

01 Work without battery



*Save initial investment

02 Two AC input voltage range



*Depends on the quality of grid

03 Higher string current



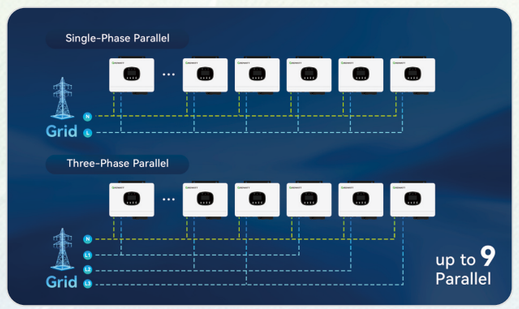
*Support higher PV input in two orientations

04 GEN/ Smart load connection



*Use the same port

05 Parallel capability



*Flexible scalability

06 More battery options



*Compatible with Third-Party Batteries

Four core application scenarios to meet your needs

Backup Power
SUB & SNU

Solar power is sufficient (load + battery).
When solar power is not available, grid power to the load + charge the battery. When the grid fails, the inverter switches to backup power(battery discharge) for loads within 20ms.

Self-consumption
SBU & SNU

Solar power is sufficient
(supply load + charge the battery).
When solar power is not sufficient,
solar and battery supply to the load.

Reduce the Electricity Bill
SBU & OSO

Solar power is sufficient (load + battery).
When solar power is not sufficient, solar and battery supply to the load. Grid power the load when battery SOC/voltage drop blow the set value of program 12.

PEAK & OFF charging
ALL modes are available

Set utility charging time in program 49.
Set three specific time period,
charge the battery during off-peak tariffs
and discharge it during peak hours.



High-Utilization

Low pv start-up voltage & wide mppt range for higher energy yield & returns

Higher Safety

Lower operational risks and stable performance

Extended 5-Year Warranty

5-year standard product warranty for SPF 6600ES Pro

More Flexible

Support no battery mode and competible with 3rd-party battery brands