

OFF-Grid Inverters Presentation



Aug, 2019

Content





SPF 5000 ES



High yields -- Investment

Investment of off-gird system





ES series inverter:

- 1. PV input directly connect to PV terminal (No need install combiner box)
- 2. Without battery operation mode (save the investment of battery)
- 3. Solar panel in string and without battery (Save the cost of PV and battery wire in parallel)



SPF 5000 ES

ES series inverter: Output power factor : 1.0 (5KVA=5KW)



Growatt

SPF 5000 ES

High yields -- Parallel



Parallel operation with up to 6 units only for 4/5KVA, the maximum system up to 30kw, also can be setting to 3 phase system .



Smart & capable -- Wide PV range

SE series inverter input range up to 450VDC, So without combiner box for PV input. Convenient for installation and save the cost of wire and combiner box.

Growatt



SPF 5000 ES

General inverter Max .PV input is 145VDC



SPF 3000-5000TL HVM

Smart & capable -- Without battery mode





- 1. Directly connect solar panel and utility power without battery operation mode.
- 2. Disconnect battery input after inverter on standard mode .
- 3. Add more battery input for energy storage .

If solar is sufficient ,solar supply power to load, utility will supply power to load at the same time when solar power is not sufficient .



Safe & reliable -- Protection

Setting voltage point back to utility or battery mode:

1.Back to utility mode voltage range: 44-51.2VDC







Safe & reliable -- Protection

Setting voltage point back to utility or battery mode:

2.Back to battery mode voltage range:48-58VDC





Safe & reliable -- Equalization charge



Safe & reliable -- HMI operation

Display screen



1.Input information (PV voltage, AC voltage, frequency, PV generator, battery voltage, charger current)

2.Output information(voltage, load percent, frequency, load in VA, load in watt, discharging current) Repart Bd

SPF 5000 SE

PC install monitor software

PV keeper monitoring platform





Safe & reliable -- HMI operation



Remote monitoring

WIFI, GPRS communication port for remote monitoring(Just for 4/5K units)





Server display



Application-- Save battery life

Priority mode : (output : solar first)

Solar supply power to load also charging for battery (if solar power is enough for load),

when solar power is not available, automatic change to utility power to the load and charging for the battery.



Application-- Save electricity charge

Priority mode: (output : SBU first)

Solar supply power to load also charging for battery (if solar power is enough for load),

when solar power is not sufficient power for load, solar and battery power supply to the load at the same time.



Application-- Off-peak charging

The time of grid power discharge and output can be setting during peak or off-peak time.



Thanks