

**Energy Storage System:  
ME 3000SP**



**Easy installation**

- Compatible with existing grid-tied PV inverters
- No need to upgrade distribution system
- Uses a split-core CT, no need to disconnect the electrical grid at all

**Simple and reliable**

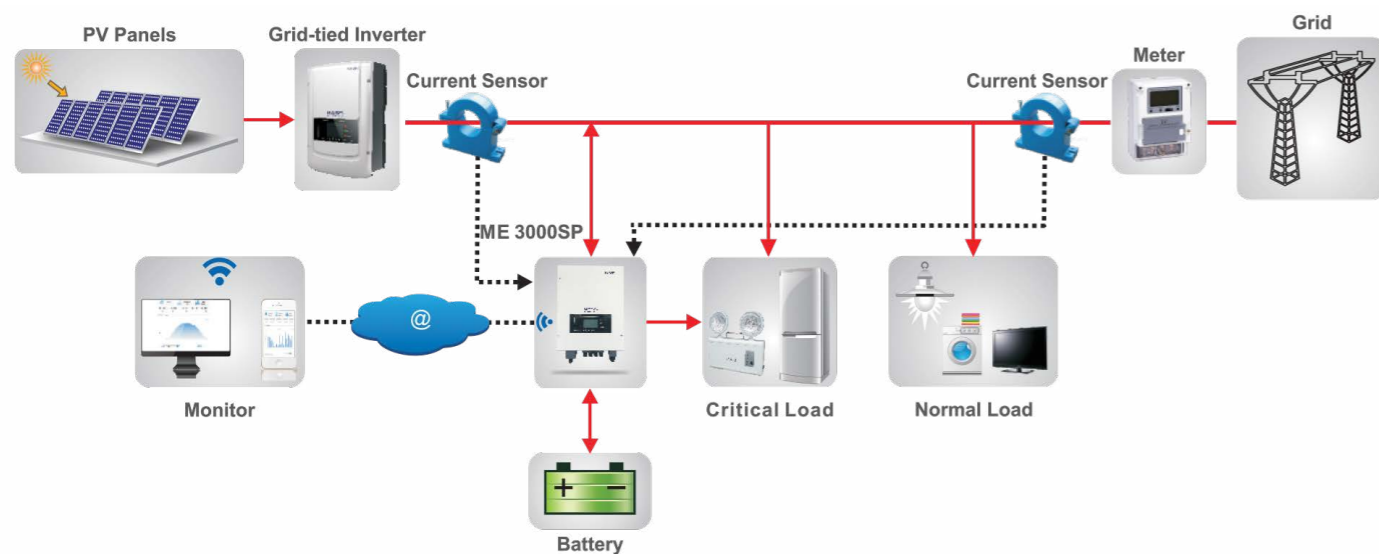
- Exchanges energy via the electrical grid, no coupling with PV inverter, mature technology, simple and reliable
- Can integrate with all grid-tied renewable systems, including solar, wind, fuelcell etc

**Flexible Solution**

- Provides a full solution for energy consumers to maximize the use of their generated solar energy
- Increases self-consumption rate (from 20% to 70%)
- User-adjustable battery charging current suits different types of batteries

**Multiple modes**

- Supports stand alone mode (like UPS), ensure the safe operation of critical load
- Programmable multiple operations modes: Grid tie, Off grid and grid-tie with back-up



Gross price	€ 2200,-
Article number	78107705

Technical specifications	Sofar ME 3000SP
<b>Battery parameters</b>	
Battery type	Lead-acid / Lithium-ion
Nominal battery voltage	48V
Battery voltage range	42V - 58V
Recommended battery capacity	200Ah (100-500Ah optional)
Recommended storage capacity	9,6kWh
Maximum charging current	60A
Charging current range	0-60A programmable
Charging curve	3-stage adaptive with maintenance
Maximum discharging current	60A
Electronic protection	OCP / OTP / OVP
Short circuit protection	Fuse (100A)
Discharge times (hour)	Po = 1kVA9,6h
	Po = 3kVA3,2h
Depth of discharge	Lithium : 0-80%DOD adjustable
	Lead-acid : 0-50%DOD adjustable
<b>AC parameters</b>	
Maximum output power	3kVA
Rated input / output voltage	230V
Maximum input / output current	13A
AC input / voltage range	180V-270V
Grid frequency range	44-55Hz / 54-66Hz
THD	<3%
Power factor	1 (adjustable ±0,8)
Connection phase	Single
Current (inrush)	0,8A/1us
Macimum output fault current	100A/1us
Maximum output ocurrent protection	13A
<b>System parameters</b>	
Maximum charging efficiency	94,1%
Maximum discharging efficiency	94,3%
Standby losses	<5W
Topology	High frequency isolated transformer
Degree of protection	IP65
Safety protection	Anti silanding / RCMUU / Ground fault monitoring
Certification	AS4777 / VDE0126-1-1 / G83/2 / C10/11 / RD1699 / UTEC15-712-1 / EN50438 / VDE-R-N4105
Communication	Wifi / RS485 / CAN2.0
<b>General data</b>	
Ambient temperature range	-25°C...+60°C (Above 45°C derating)
Consumption at night / standby[W]	<0.6 / <10
Protective class	Class I
Maximum operating altitude	Up to 2000m (without power derating)
Current sensor connection	External
Noise	<25dBA
Weight	16kg
Dimension (w*h*d)	532*360*173mm
Standard warrenty	5 years (standard) / 10 years optional
<b>Emergency power supply</b>	
EPS rated power	3000VA
EPS rated voltage, frequency	230V 50/60Hz
EPS rated current	13A
Total harmonic distortion	<3%
Switch time	<3s