

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 .

Flexible solution

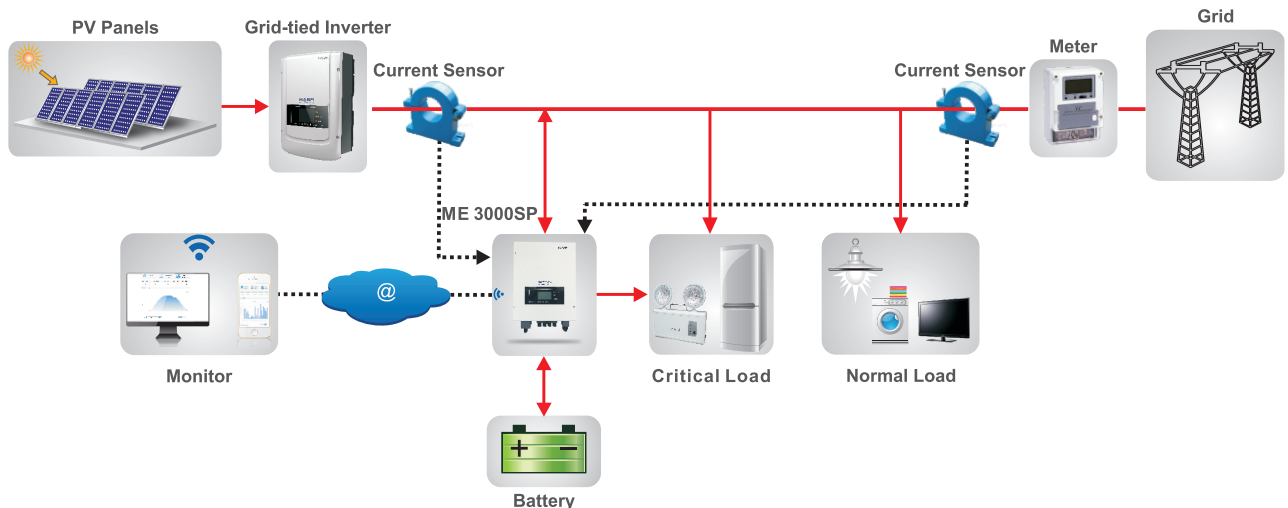
- Provides a full solution for energy consumers to maximize the use of their generated solar energy.
- Increases self-consumption rate (from 20% to 70%).
- User-adjustable battery charging current suits different types of batteries.

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, fuel cell etc.

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 backup.



Technical Data

ME 3000SP

BATTERY PARAMETERS

Battery Type	Lead-acid,Lithium-ion	
Nominal battery voltage	48V	
Battery voltage range	40-60V	
Recommended battery capacity	200Ah (100~500Ah optional)	
Recommended Storage capacity	9.6kWh	
Max.Charging Current	60A	
Charging Current Range	0-60A(Programmable)	
Charging curve	3-stage adaptive with maintenance	
Max.Discharging Current	60A	
Electronic protection	OCP OTP OVP	
Short circuit protection	Fuse (100A)	
Discharge times (Hour)	Po=1kVA	9.6h
	Po=3kVA	3.2h
Depth of discharge	Lithium : 0~80%DOD adjustable	
	Lead-acid:0~50%DOD adjustable	

AC OUTPUT

Max.Output Power	3kVA	
Peak Power	1.5*Pnom ,10S; 1.2*Pnom ,30S	
Rated Output Voltage	230V	
Max.Output Current	13A	
AC Voltage Range	180V-270V	
Grid Frequency Range	44~55Hz / 54~66Hz	
THD	<3%	
Power Factor	1(Adjustable +/-0.8)	
Connection phase	single	

SYSTEM PARAMETERS

Max.Charging Efficiency	94.5%	
Max.Discharging Efficiency	94%	
Stanby Losses	<5W	
Topology	High Frequency Isolated Transformer	
Degree Of Protection	IP65	
Safety Protection	Anti islanding, RCMU, Groud Fault Monitoring	
Certification	AS4777,VDE0126-1-1,G83/2,C10/11,RD1699,UTEC15-712-1,EN50438,VDE-AR-N4105	
Communication	WiFi,RS485,CAN2.0	

ENVIRONMENTAL

Ambient temperature range	-25°C...+60°C (Above 45°Derating)	
Allowable Relative Humidity Range	0... 95%, No Condensing	
Max.Operating Altitude	2000m	
Current Senor Connection	external	

GENERAL DATA

Noise	<25dB	
Weight	16kg	
Cooling	Natural	
Dimension(W*H*D)	532*360*173mm	
Display	LCD display	
Warranty	5 Years (Optional: extension to 10 years)	

Emergency Power Supply

EPS rated power	3000VA	
EPS rated voltage, Frequency	230V,50/60Hz	
EPS rated current	13A	
EPS peak power	1.5*Prated, 10s	
Total harmonic distortion	<3%	
Switch time	<3s	