

# ME 3000SP

Designed For Storage System  
Uninterrupted Power Supply For Your Home



## 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

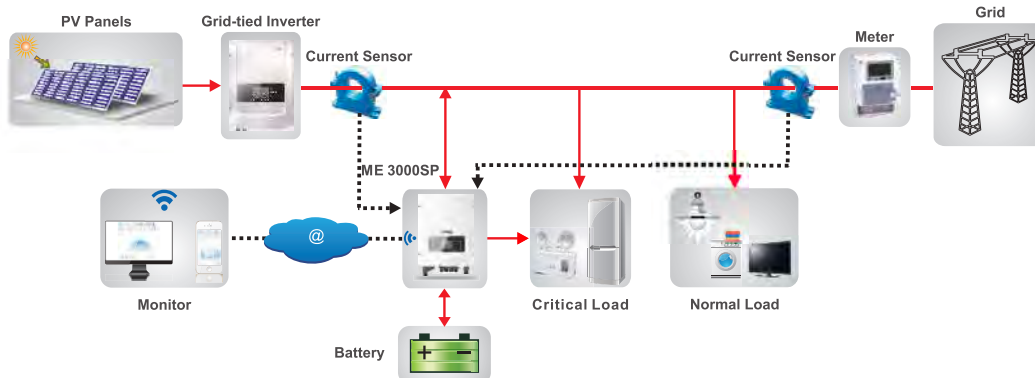
- Exchanges energy via the electrical grid, no coupling with PV inverter, mature technology, simple and reliable.
- Can integrate with all grid-tied renewable systems, including solar, wind, fuel cell etc.

## 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 backup.



# MASS ENERGY INVERTER



ME 3000SP

## Datasheet

## ME 3000SP

### Battery Parameters

Battery Type	Lead-acid,Lithium-ion
Nominal battery voltage	48V
Battery voltage range	42-58V
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=1kVA9.6h
	Po=3kVA3.2h
Depth of discharge	Lithium : 0~80%DOD adjustable
	Lead-acid:0~50%DOD adjustable

### AC Parameters

Max.Output Power	3kVA
Rated Input/Output Voltage	230V
Max.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
Maximum output fault current	100A/1us
Maximum output overcurrent protection	13A

### System Parameters

Max.Charging Efficiency	94.1%
Max.Discharging Efficiency	94.3%
Standby Losses	<5W
Topology	High Frequency Isolated Transformer
Degree Of Protection	IP65
Safety Protection	Anti islanding, RCMU, Ground Fault Monitoring
Certification	IEC 62116,IEC 61727, IEC 61683,IEC 60068(1,2,14,30),IEC62109-1/2, AS4777,VDE0126-1-1,G83/2,C10/11,RD1699,UPEC15-712-1,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... 100%, No Condensing
Protective Class	Class I
Max.Operating Altitude	2000m
Current Sensor 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)

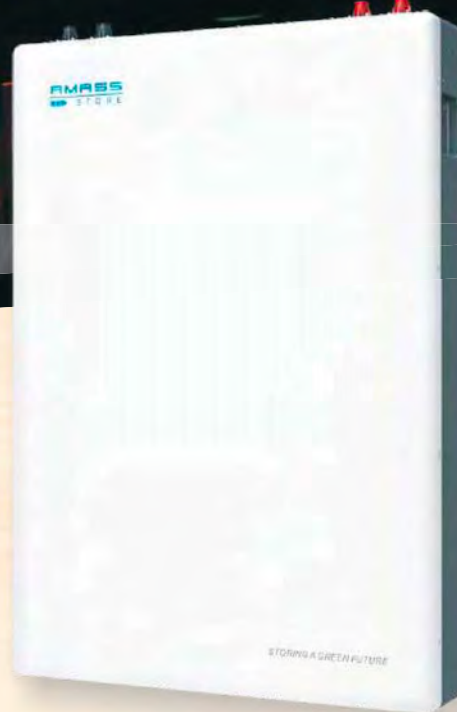
### Emergency Power Supply

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



AS4777 G83/2 G59/3

CQC, IEC, VDE-AR-N4105 / VDE-0126, EMC, C10/11, EN50438, RD1669, CE1 0-21



# AMASS STORE BATTERY

E1502-75L0200/E1402-75K9K9



Multi-level energy management, longer battery life



One-button switch machine, more convenient operation



Modular, ultra-thin wall hanging design, convenient installation



Multiple parallel support, high current charge and discharge



High BMS compatibility, perfect match of energy storage inverter



The adoption of high-performance processors, international brand devices, better stability

# Datasheet

EI 502-75L0200

EI 402-75K9K9

## Basic Parameters

Total energy	2400Wh	2590Wh
Usable energy	2000Wh	2100Wh
Nominal voltage	48.0V	51.8V
Depth of discharge (DOD)	80%	80%
Cycle life (80%DOD)	>6000, 25°C	>4000, 25°C
Design life	10+ Years(25 °C 77°F)	10+ Years(25 °C 77°F)
Discharge voltage	45V ~ 54.0V	45V ~ 58.1V
Charge voltage	51.5V ~ 54.0V	57.5V ~ 58.1V
Cont. Charge current	25A	25A
Max. Charge current	25A	35A
Cont. Discharge current	50A	50A
Max. Discharge current	65A	65A
Communication port	CANbus 2.0B+RS485	CANbus 2.0B+RS485
Storage temperature	5°C~+45°C	0°C~+45°C
Altitude	<4000m	<4000m
Humidity	10%~90%	10%~90%
Scalable	Up to 4 units	Up to 4 units
Installation method	Wall-mounted	Wall-mounted
Protection rating	IP20	IP20
Operating temperature	-10°C~+50°C (discharge) 0°C~+50°C (charge)	-20°C~+60°C (discharge) 0°C~+60°C (charge)
Weight	31kg	30kg
Dimension	95mm*450mm*640mm	95mm*450mm*640mm
Certificates	CE / IEC62619 / RCM / SAA	CE / IEC62619 / RCM / SAA

GTX 2000/2100\_EN\_201907\_V1

## AC Coupled Solar System

