Battery Energy Storage System

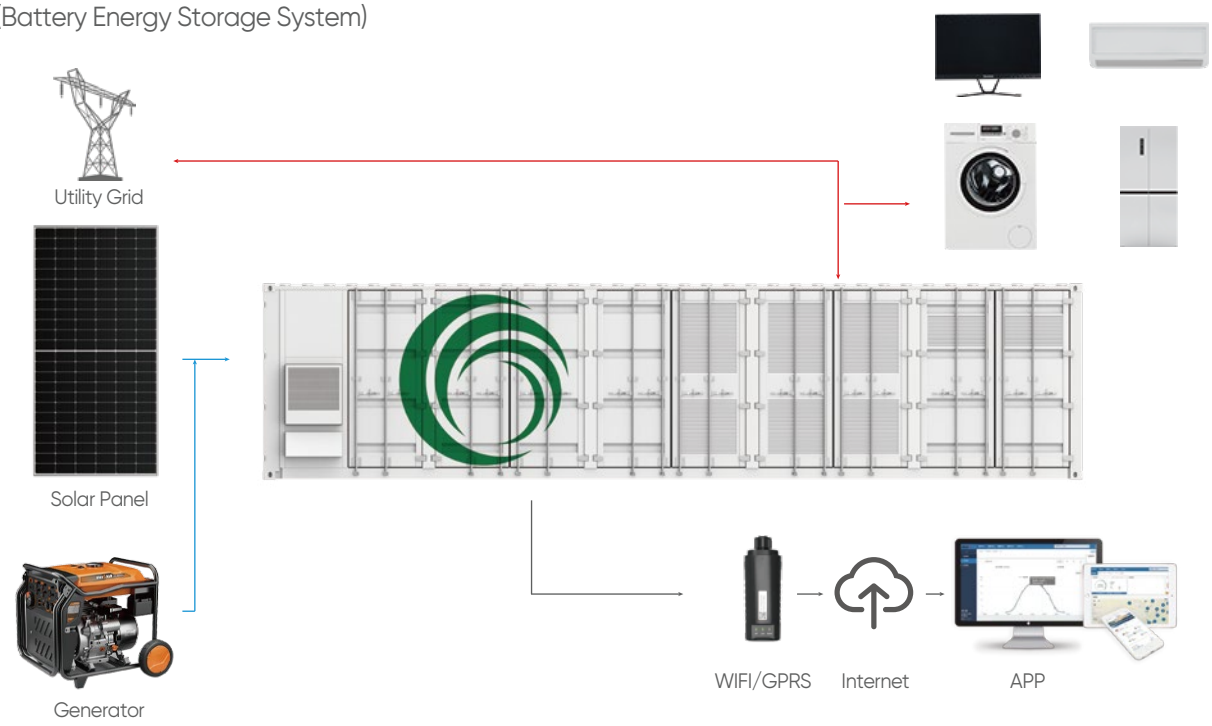
US Voltage

SP-1MW3-MPS

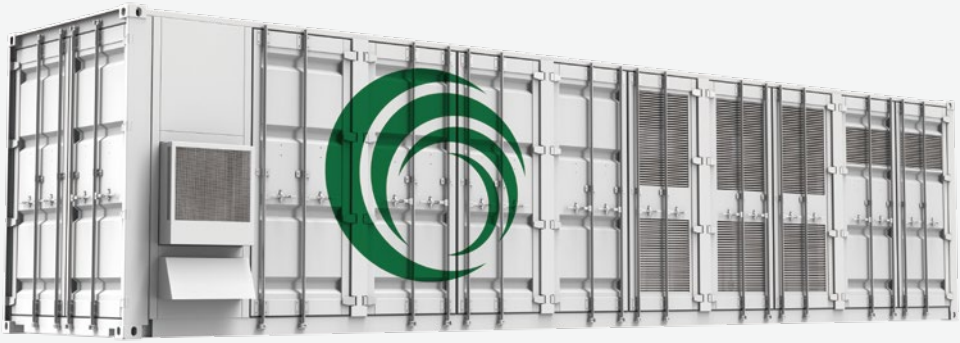
Web: www.sunpal-energy.com Email: frankie@sunpalsolar.com Tel: +86 183 5508 8031

SP-1MW3-MPS

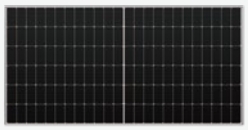
(Battery Energy Storage System)



SOLAR SYSTEM KIT



Solar Panel



Lithium Battery

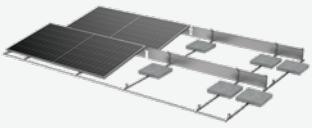
Solar Inverter

Wifi Monitor

PV Cable

MC4 Connector

Mounting Bracket



Container

Web: www.sunpal-energy.com Email: frankie@sunpalsolar.com Tel: +86 183 5508 8031

PV Module

- Adopting the 182*210mm N-Type TOPCon cells with the highest efficiency
- Mechanical load tests including wind load 2400Pa and snow load 5400Pa done by TUV
- Ensure the attenuation probability caused by PID phenomenon is minimized
- Strict salt spray and ammonia corrosion test by TUV

Parameter	
Testing Condition	STC
Maximum Power(Pmax/W)	620W
Open Circuit Voltage(Voc/V)	49.55
Short Circuit Current(Isc/A)	15.93
Voltage at Maximum Power(Vmp/V)	41.06
Current at Maximum Power(Imp/A)	15.10
Module Efficiency(%)	22.95

620W

N-Type TOPCon Bifacial
Double-Glass Solar Module

Inverter

- Various working modes can be set flexibly
- Seamless transfer between on and off grid
- Perfect protection function to protect inverters and batteries
- Integrated design to support loads, batteries, power grids, diesel generators and PV be connected

MPS0500

Inverter

Parameter	
Model	MPS0500
AC(grid-connected)	
Rated power	500kW
Rated voltage	480V
Rated current	601A
Rated frequency	50/60Hz
THDi	<3%
Power factor	0.8lagging-0.8leading
AC connection	3W+N+PE
AC(off-grid)	
Rated power	500kW
Rated voltage	480V
Rated current	601A
THDU	≤ 2% linear
Overload capability	110%-10min120%-1min
PV	
MAX PV power	600kW
PV mpp voltage range	200VDC-850VDC
Battery	
Battery voltage range	500V-850V
General data	
Ingress protection	IP20
Noise emission (dB)	<70
Operating temperature (°C)	-30~55
Cooling	Forced air
Dimension W*D*H (mm)	2800*800*2050
Net weight(kg)	3520

Lithium Battery

- Quick Customization of Electricity
- Easy Installation Flexible Expansion
- Emergency-Backup and Off-Grid Functionality
- Safety first Smart BMS system

Parameter	
Nominal Capacity	280Ah
Nominal Voltage	716.8V
Max.Charging Current	140A
Max.Discharging Current	140A

716.8V
280Ah

Rack-Mounted
LiFePO4 Battery

Sunpal Power Co., Ltd.

Add: NO.398 Ganquan Road, Hefei, China

Tel: +86 183 5508 8031

Email: frankie@sunpalsolar.com

Web: www.sunpal-energy.com