

UNIPOWER

INVERTER | MPS SERIES

MPS-3024 SOLAR SYSTEM RECOMMENDED CONFIGURATION

PRODUCT CONFIGURATION	MPS-3024 /100AH*2PCS/MPPT 60A, WITHOUT AC				
SUNSHINE TIME/DAY	NO LOAD		WITH LOAD		
	SOLAR PANEL	CONNECTION	SOLAR PANEL	CONNECTION	LOAD
4 HOURS	250W/36V*3PCS	SERIES SYSTEM	250W/36V*3PCS*2SETS	3 SERIES 2 PARALLEL	750W*4HR/DAY
5 HOURS	300W/36V*2PCS	SERIES SYSTEM	300W/36V*2PCS*2SETS	2 SERIES 2 PARALLEL	600W*5HR/DAY
6 HOURS	250W/36V*2PCS	SERIES SYSTEM	250W/36V*2PCS*2SETS	2 SERIES 2 PARALLEL	500W*6HR/DAY
7 HOURS	225W/36V*2PCS	SERIES SYSTEM	225W/36V*2PCS*2SETS	2 SERIES 2 PARALLEL	450W*7HR/DAY
8 HOURS	180W/36V*2PCS	SERIES SYSTEM	180W/36V*2PCS*2SETS	2 SERIES 2 PARALLEL	360W*8HR/DAY
9 HOURS	320W/36V*1PC	----	320W/36V*1PC*2SETS	SERIES SYSTEM	320W*9HR/DAY
10 HOURS	300W/36V*1PC	----	300W/36V*1PC*2SETS	SERIES SYSTEM	330W*10HR/DAY

THE ABOVE DATA ARE FOR REFERENCE ONLY



www.svcpower.com

Foshan Unipower Electronic Co.,Ltd
 Email: sales@svcpower.com
[http:// www.svcpower.com](http://www.svcpower.com)



Green Energy,
Efficient Conversion

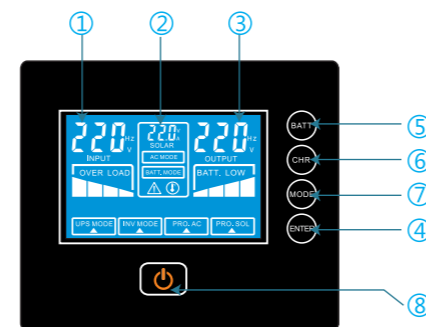


FEATURE

1. Pure sine wave inverter
Cold start function
2. Selectable INV MODE range
165-265±5Vac or UPS
MODE 180-265±5Vac for
home appliances and
personal computers
3. Selectable high power
AC charging current of
5A/10A/20A/30A/45A/60A
4. Selectable up to 8 types battery
* Lithium Iron Phosphate (LiFePO4)/
AGM/Gel/Sealed lead acid/Gel EURO/
Open lead acid/Calcium/De sulphation
5. Compatible to mains
voltage or generator
output
6. Auto restart while AC
is recovering
Overload and short
circuit protections
7. Smart battery charger
design for optimized
battery performance
8. Selectable solar charging
current from 10A to 60A
9. Configurable AC /
Solar input priority
via LCD setting
10. Setting of battery
shutdown voltage.
11. Setting of battery
voltage from solar
priority to AC
priority.
12. Remote control function
USB and RS232
communication
function

PRODUCT INTRODUCTION

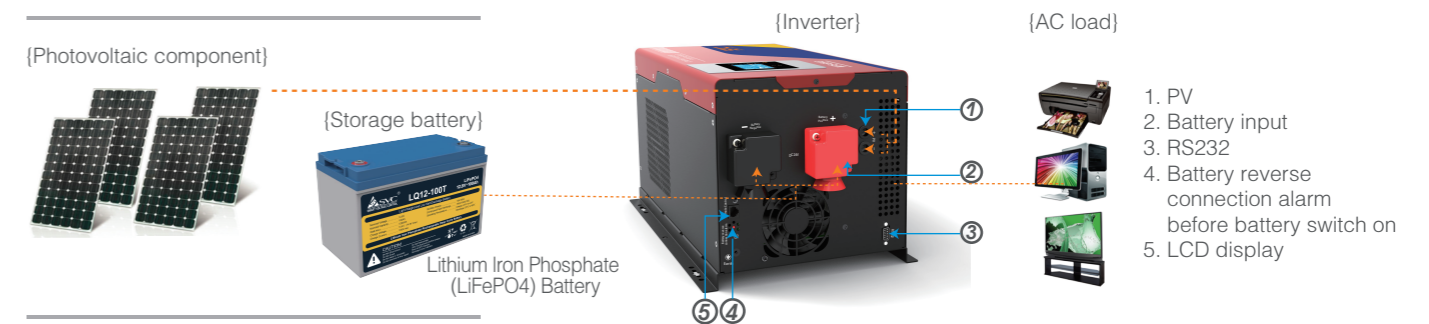
1. Input voltage
2. Solar information
3. Output voltage
4. Confirm button
5. UP
6. DOWN
7. Mode selection
8. ON/OFF switch/PRO selection



Press 'ENTER' about 4 seconds to enter Advanced Menu, it will appear following Settings

1. **bLs**: Press ▲ or ▼ to select the battery shutdown voltage, options of 10.0V, 10.5V, 10.8V and 11.1V (for per unit battery).
2. **btu**: Press ▲ or ▼ to select the battery voltage from solar priority to AC priority, options of 11.4V, 11.6V, 11.8V and 12.0V (for per unit battery).
3. **scc**: Press ▲ or ▼ to select the maximum current of solar charger, options of 10A/20A/30A/40A/50A/60A.
4. **bat**: Press ▲ or ▼ to select the battery types which connecting to inverter.
5. **chr**: Press ▲ or ▼ to select the inverter AC charging current, options of 5A/10A/20A/30A/45A/60A.
6. **yes**: Press ▲ or ▼ to select setting YES or NO and press ENTER to confirm.

MPS SOLAR SYSTEM



SPECIFICATIONS

Model:	2012	3024	3048	4048	6048	8048	12048
Real power	2000W	3000W	4000W	6000W	8000W	12000W	
DISPLAY							
Indicator panel	LCD display						
AC MODE							
Input Voltage (INV. mode)	160-265 ± 5Vac						
Input Voltage (UPS mode)	180-265 ± 5Vac						
Input frequency	45-65Hz						
Output Voltage (INV. mode)	160-265 ± 5Vac						
Output Voltage (UPS mode)	180-265 ± 5Vac						
Efficiency	≥96% (AC Mode)						
INVERTER MODE							
THD	<3%(linear load)						
Output voltage	230Vac						
Output frequency	50 ± 0.1Hz / 60 ± 0.1Hz(Auto sensing)						
Output wave form	Pure Sine Wave						
Transfer time	< 10ms (Typical)						
Efficiency	≥80% (BATTERY Mode)						
Overload capability	(100%<Load<120%) ± 10%:Auto shutdown in 2 mins; (120%<Load<140%) ± 10%:Auto shutdown in 60 secs; (140%<Load) ± 10%:Auto shutdown in 20 secs;						
Overcurrent protection	System shuts down automatically within 20ms						
Output short circuit protection	Yes						
BATTERY							
DC voltage	DC 12V	DC 24V	DC 48V	DC 48V	DC 48V	DC 48V	DC 48V
Battery type	8 types of battery						
AC charging current	5A/10A/20A/30A/45A(60A) Max						
Solar charging current(MPPT)	60A Max						
MPPT Tracking Voltage Range	DC 18V-DC 150V	DC 34V-DC 150V	DC 65V-DC 150V	DC 65V-DC 150V	DC 65V-DC 150V	DC 65V-DC 150V	DC 65V-DC 150V
Maximum PV Input Voltage	DC 170V						
PHYSICAL							
Net weight(kg)	24.9	29	29	29	35	60	80
Dimension(mm)	480(L)*286(W)*251(H)mm						
ENVIRONMENT							
Environment	Temperature 0°C-40°C, Humidity 20%-90%						
Noise level	≤ 40dB(1m)						
Altitude	≤ 1000 m (Altitude exceeds 1000m, full power cannot reach)						