



# User's Manual POWER INVERTER

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PC



TV



Light



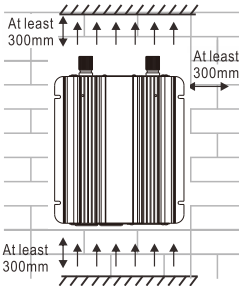
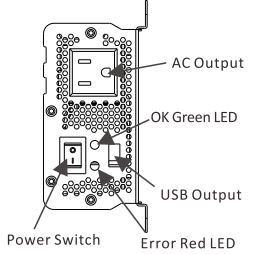
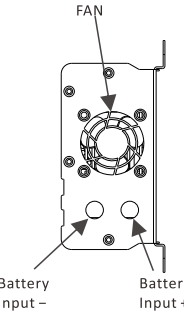
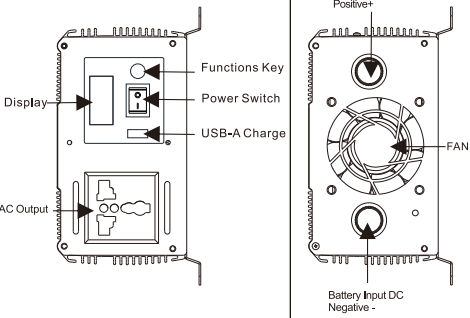
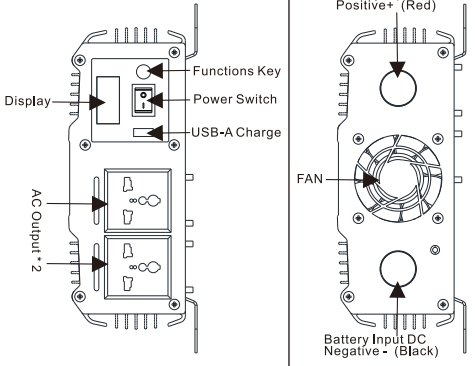
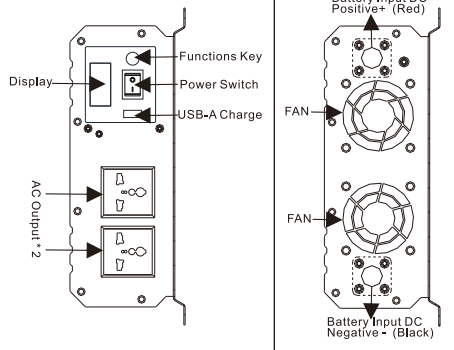
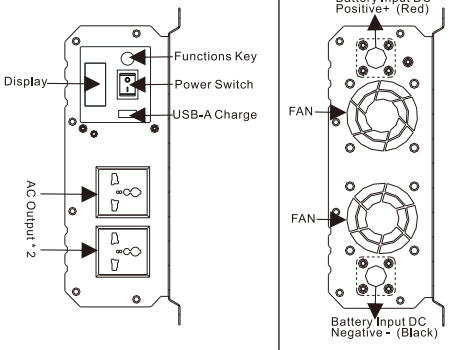


Electric fan

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# 1.Exterior and interfaces,Installment

 <p>300W</p>  <p>600~3000W</p>	<p>Installment Instructions</p>  <p>At least 300mm</p> <p>At least 300mm</p> <p>At least 300mm</p> <p>At least 300mm</p>	 <p>AC Output</p> <p>OK Green LED</p> <p>USB Output</p> <p>Power Switch</p> <p>Error Red LED</p>  <p>FAN</p> <p>Battery Input +</p> <p>Battery Input -</p> <p>(1)300W</p>	
 <p>Display</p> <p>Functions Key</p> <p>Power Switch</p> <p>USB-A Charge</p> <p>AC Output</p> <p>Battery Input DC Positive+</p> <p>FAN</p> <p>Battery Input DC Negative -</p> <p>(2)600W</p>		 <p>Display</p> <p>Functions Key</p> <p>Power Switch</p> <p>USB-A Charge</p> <p>AC Output * 2</p> <p>FAN</p> <p>Battery Input DC Positive+ (Red)</p> <p>Battery Input DC Negative - (Black)</p> <p>(3)1000W</p>	
 <p>Display</p> <p>Functions Key</p> <p>Power Switch</p> <p>USB-A Charge</p> <p>AC Output * 2</p> <p>FAN</p> <p>Battery Input DC Positive+ (Red)</p> <p>FAN</p> <p>Battery Input DC Negative - (Black)</p> <p>(4)1500W/2000W</p>		 <p>Display</p> <p>Functions Key</p> <p>Power Switch</p> <p>USB-A Charge</p> <p>AC Output * 2</p> <p>FAN</p> <p>Battery Input DC Positive+ (Red)</p> <p>FAN</p> <p>Battery Input DC Negative - (Black)</p> <p>(5)3000W</p>	

**Note:**The DC input lines must lower than 1M best. or easy to cause low voltage protection when full load.

## 2.Disp and Key Functions

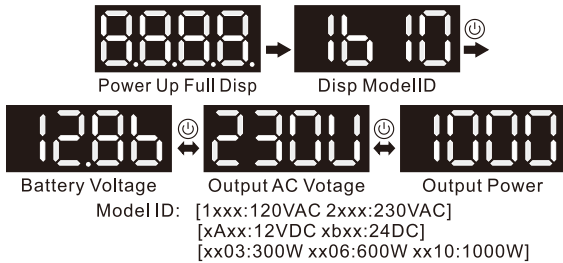
### 1)Power Switch



Switch the switch to power on or off, if fault is occur, switch off and switch on to restart the machine.

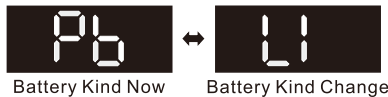
### 2)Display Parameter Exchange

Short Press PowerKey (⏻) Can Change Display Different Parameters

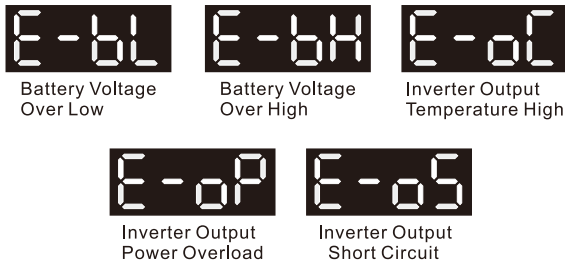


### 3)Setting Battery Kind between Pb and LI

Long Press PowerKey (⏻) and Do not release



## 3.Protection and Warning Functions Note



## 4.Alarm Message

Statue	Buzz Warning
Power ON	Short Beep 1 time
Normal, No Error	No
Battery Input Low Voltage Warning	Short Beep 1 time, Stop 10 seconds
Inverter Output Overload Warning	Short Beep 1 time, Stop 1 seconds
Battery Input Low Voltage Protection	Short Beep 2 time, Stop 2 seconds
Battery Input Over Voltage Protection	Short Beep 6 times, Stop 2 seconds
Inverter Output Over Temperature Protection	Short Beep 3 times, Stop 2 seconds
Inverter Output Overload\Short Circuit Protection	Short Beep 4 times,Stop 2 seconds
Inverter Protect Locked, Need Restart	Short Beep 5 times,Stop 2 seconds

## 5. Electric Parameters

### (1) 300W

Model	0312	0312LV	0324	0324LV
<b>Battery DC Input 【Parameters (PB)Lead-acid Battery】</b>				
<b>Input Voltage</b>	12VDC		24VDC	
Low Voltage Protect Delay	2 seconds			
Low Voltage Protect	10.5VDC(PB)		21.0VDC(PB)	
Low Voltage Warning	11.5VDC(PB)		23.0VDC(PB)	
Low Voltage Restoring	12.5VDC(PB)		25.0VDC(PB)	
Over Voltage Restoring	14.7VDC(PB)		29.4VDC(PB)	
Over Voltage Protect	15.0VDC(PB)		30.0VDC(PB)	
<b>Inverter AC Output</b>				
Default Power	300W			
Peak Power	600W			
Output AC Voltage	230V	120V	230V	120V
Output AC Frequency	50Hz	60Hz	50Hz	60Hz
Output Wave	Pure Sine Wave			
Output Wave THD	< 3%			
<b>USB</b>				
USB Output	USB A type - 5V 1A			
<b>Protection</b>				
Battery Input Protection	Low Voltage Protection、Over Voltage Protection			
Inverter Output Protection	Output Overload、Short-Circuit、Over Temperature Protection			
<b>Display</b>				
LED Display	Green LED: Output		Red LED: Error	
<b>Efficiency</b>				
Peak Conversion efficiency	91%			
<b>Environment</b>				
Protection Degree	IP20			
Working Environment	Indoor Fan cooling			
Environmental temperature	0 ~45°C			
Ambient humidity	20%—90%, No condensation			
Altitude	≤3000m			
<b>Size</b>				
L*W*H	200*127*57mm			

**(2) 600W**

Model	0612	0612LV	0624	0624LV
<b>Battery DC Input [Parameters (PB)Lead-acid Battery / (LI) 4 series@12V/ 8series@24V LiFePO4 Lithium Battery Pack]</b>				
<b>Input Voltage</b>	12VDC		24VDC	
Low Voltage Protect Delay	2 seconds			
Low Voltage Protect	10.5VDC(PB)	11.6VDC(LI)	21.0VDC(PB)	23.2VDC(LI)
Low Voltage Warning	11.5VDC(PB)	12.0VDC(LI)	23.0VDC(PB)	24.0VDC(LI)
Low Voltage Restoring	12.5VDC(PB)	12.8VDC(LI)	25.0VDC(PB)	25.6VDC(LI)
Over Voltage Restoring	14.7VDC(PB)	14.5VDC(LI)	29.4VDC(PB)	29.0VDC(LI)
Over Voltage Protect	15.0VDC(PB)	14.8VDC(LI)	30.0VDC(PB)	29.6VDC(LI)
<b>Inverter AC Output</b>				
Default Power	600W			
Peak Power	1200W			
Output AC Voltage	230V	120V	230V	120V
Output AC Frequency	50Hz	60Hz	50Hz	60Hz
Output Wave	Pure Sine Wave			
Output Wave THD	< 3%			
<b>USB</b>				
USB Output	USB A type - 5V 2.1A			
<b>Protection</b>				
Battery Input Protection	Low Voltage Protection、Over Voltage Protection			
Inverter Output Protection	Output Overload、Short-Circuit、Over Temperature Protection			
<b>Display</b>				
LED Digital Display	Display Battery Voltage、OutputPower、Output Voltage、Error Messages			
<b>Efficiency</b>				
Peak Conversion efficiency	90%			
<b>Environment</b>				
Protection Degree	IP20			
Working Environment	Indoor Fan cooling			
Environmental temperature	0 ~45°C			
Ambient humidity	20%—90%，No condensation			
Altitude	≤3000m			
<b>Size</b>				
L*W*H	242*158*81mm			

### (3) 1000W

Model	1012	1012LV	1024	1024LV
<b>Battery DC Input 【Parameters (PB)Lead-acid Battery / (LI) 4 series@12V/ 8series@24V LiFePO4 Lithium Battery Pack】</b>				
<b>Input Voltage</b>	12VDC		24VDC	
Low Voltage Protect Delay	2 seconds			
Low Voltage Protect	10.5VDC(PB)	11.6VDC(LI)	21.0VDC(PB)	23.2VDC(LI)
Low Voltage Warning	11.5VDC(PB)	12.0VDC(LI)	23.0VDC(PB)	24.0VDC(LI)
Low Voltage Restoring	12.5VDC(PB)	12.8VDC(LI)	25.0VDC(PB)	25.6VDC(LI)
Over Voltage Restoring	14.7VDC(PB)	14.5VDC(LI)	29.4VDC(PB)	29.0VDC(LI)
Over Voltage Protect	15.0VDC(PB)	14.8VDC(LI)	30.0VDC(PB)	29.6VDC(LI)
<b>Inverter AC Output</b>				
Default Power	1000W			
Peak Power	2000W			
Output AC Voltage	230V	120V	230V	120V
Output AC Frequency	50Hz	60Hz	50Hz	60Hz
Output Wave	Pure Sine Wave			
Output Wave THD	□ 3%			
<b>USB</b>				
USB Output	USB A type - 5V 2.1A			
<b>Protection</b>				
Battery Input Protection	Low Voltage Protection、Over Voltage Protection			
Inverter Output Protection	Output Overload、Short-Circuit、Over Temperature Protection			
<b>Display</b>				
LED Digital Display	Display Battery Voltage、OutputPower、Output Voltage、Error Messages			
<b>Efficiency</b>				
Peak Conversion efficiency	90%			
<b>Environment</b>				
Protection Degree	IP20			
Working Environment	Indoor Fan cooling			
Environmental temperature	0 ~45°C			
Ambient humidity	20%—90%, No condensation			
Altitude	≤3000m			
<b>Size</b>				
L*W*H	291*220*83mm			

## (4) 1500W

Model	1512	1512LV	1524	1524LV
<b>Battery DC Input 【Parameters (PB)Lead-acid Battery / (LI) 4 series@12V/ 8series@24V LiFePO4 Lithium Battery Pack】</b>				
<b>Input Voltage</b>	12VDC		24VDC	
Low Voltage Protect Delay	2 seconds			
Low Voltage Protect	10.5VDC(PB)	11.6VDC(LI)	21.0VDC(PB)	23.2VDC(LI)
Low Voltage Warning	11.5VDC(PB)	12.0VDC(LI)	23.0VDC(PB)	24.0VDC(LI)
Low Voltage Restoring	12.5VDC(PB)	12.8VDC(LI)	25.0VDC(PB)	25.6VDC(LI)
Over Voltage Restoring	14.7VDC(PB)	14.5VDC(LI)	29.4VDC(PB)	29.0VDC(LI)
Over Voltage Protect	15.0VDC(PB)	14.8VDC(LI)	30.0VDC(PB)	29.6VDC(LI)
<b>Inverter AC Output</b>				
Default Power	1500W			
Peak Power	3000W			
Output AC Voltage	230V	120V	230V	120V
Output AC Frequency	50Hz	60Hz	50Hz	60Hz
Output Wave	Pure Sine Wave			
Output Wave THD	< 3%			
<b>USB</b>				
USB Output	USB A type - 5V 2.1A			
<b>Protection</b>				
Battery Input Protection	Low Voltage Protection、Over Voltage Protection			
Inverter Output Protection	Output Overload、Short-Circuit、Over Temperature Protection			
<b>Display</b>				
LED Digital Display	Display Battery Voltage、OutputPower、Output Voltage、Error Messages			
<b>Efficiency</b>				
Peak Conversion efficiency	90%			
<b>Environment</b>				
Protection Degree	IP20			
Working Environment	Indoor Fan cooling			
Environmental temperature	0 ~45°C			
Ambient humidity	20%—90%，No condensation			
Altitude	≤3000m			
<b>Size</b>				
L*W*H	380.8*248*90mm			



## (5) 2000W

Model	2012	2012LV	2024	2024LV
<b>Battery DC Input 【Parameters (PB)Lead-acid Battery / (LI) 4 series@12V/ 8series@24V LiFePO4 Lithium Battery Pack】</b>				
<b>Input Voltage</b>	12VDC		24VDC	
Low Voltage Protect Delay	2 seconds			
Low Voltage Protect	10.5VDC(PB)	11.6VDC(LI)	21.0VDC(PB)	23.2VDC(LI)
Low Voltage Warning	11.5VDC(PB)	12.0VDC(LI)	23.0VDC(PB)	24.0VDC(LI)
Low Voltage Restoring	12.5VDC(PB)	12.8VDC(LI)	25.0VDC(PB)	25.6VDC(LI)
Over Voltage Restoring	14.7VDC(PB)	14.5VDC(LI)	29.4VDC(PB)	29.0VDC(LI)
Over Voltage Protect	15.0VDC(PB)	14.8VDC(LI)	30.0VDC(PB)	29.6VDC(LI)
<b>Inverter AC Output</b>				
Default Power	2000W			
Peak Power	4000W			
Output AC Voltage	230V	120V	230V	120V
Output AC Frequency	50Hz	60Hz	50Hz	60Hz
Output Wave	Pure Sine Wave			
Output Wave THD	< 3%			
<b>USB</b>				
USB Output	USB A type - 5V 2.1A			
<b>Protection</b>				
Battery Input Protection	Low Voltage Protection、Over Voltage Protection			
Inverter Output Protection	Output Overload、Short-Circuit、Over Temperature Protection			
<b>Display</b>				
LED Digital Display	Display Battery Voltage、OutputPower、Output Voltage、Error Messages			
<b>Efficiency</b>				
Peak Conversion efficiency	90%			
<b>Environment</b>				
Protection Degree	IP20			
Working Environment	Indoor Fan cooling			
Environmental temperature	0 ~45°C			
Ambient humidity	20%—90%，No condensation			
Altitude	≤3000m			
<b>Size</b>				
L*W*H	380.8*248*90mm			

**(6) 3000W**

Model	3012	3012LV	3024	3024LV
<b>Battery DC Input 【Parameters (PB)Lead-acid Battery / (LI) 4 series@12V/ 8series@24V LiFePO4 Lithium Battery Pack】</b>				
<b>Input Voltage</b>	12VDC		24VDC	
Low Voltage Protect Delay	2 seconds			
Low Voltage Protect	10.5VDC(PB)	11.6VDC(LI)	21.0VDC(PB)	23.2VDC(LI)
Low Voltage Warning	11.5VDC(PB)	12.0VDC(LI)	23.0VDC(PB)	24.0VDC(LI)
Low Voltage Restoring	12.5VDC(PB)	12.8VDC(LI)	25.0VDC(PB)	25.6VDC(LI)
Over Voltage Restoring	14.7VDC(PB)	14.5VDC(LI)	29.4VDC(PB)	29.0VDC(LI)
Over Voltage Protect	15.0VDC(PB)	14.8VDC(LI)	30.0VDC(PB)	29.6VDC(LI)
<b>Inverter AC Output</b>				
Default Power	3000W			
Peak Power	6000W			
Output AC Voltage	230V	120V	230V	120V
Output AC Frequency	50Hz	60Hz	50Hz	60Hz
Output Wave	Pure Sine Wave			
Output Wave THD	< 3%			
<b>USB</b>				
USB Output	USB A type - 5V 2.1A			
<b>Protection</b>				
Battery Input Protection	Low Voltage Protection、 Over Voltage Protection			
Inverter Output Protection	Output Overload、 Short-Circuit、 Over Temperature Protection			
<b>Display</b>				
LED Digital Display	Display Battery Voltage、 OutputPower、 Output Voltage、 Error Messages			
<b>Efficiency</b>				
Peak Conversion efficiency	89%			
<b>Environment</b>				
Protection Degree	IP20			
Working Environment	Indoor Fan cooling			
Environmental temperature	0 ~45°C			
Ambient humidity	20%—90%， No condensation			
Altitude	≤3000m			



**MUST**<sup>®</sup>

# GUARANTEECERTIFICATE

Serial No.: \_\_\_\_\_

Customer's Name				Contact Person	
Address				Telephone No.	
Product/Model:		Post Code		Fax No.	
Date of purchase			Expire Date		
Dealer Signature			Customer Signature		

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Serial No.: \_\_\_\_\_

Customer's Name				Contact Person	
Address				Telephone No.	
Product/Model:		Post Code		Fax No.	
Date of purchase			Expire Date		
Dealer Signature			Customer Signature		