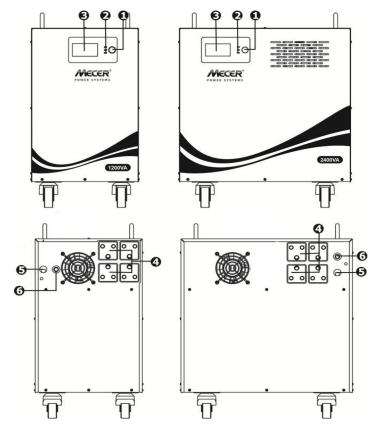
# **Quick Guide**

## 1. Introduction

Thank you for purchasing the inverter/charger. This simple inverter/charger is designed to power your home appliances or precious 3C electronics. With built-in solar charger, it can convert solar power to battery power and provide continuous power to connected equipment during night time.

### 2. Product Overview



MECER BBONE 1200VA/2400VA

- 1. Power Switch
- 2. Status indicators
- 3. LCD display

Please see the Operation section for the details of LED and LCD display.

- 4. Output receptacles
- 5. AC input
- 6. Circuit breaker

## 3. Important Safety Warning (SAVE THESE INSTRUCTIONS)

#### Before using the inverter, please read all instructions and cautionary markings on the unit, this manual and the batteries.

#### **General Precaution-**

#### **Conventions used:**

**WARNING!** Warnings identify conditions or practices that could result in personal injury; **CAUTION!** Caution identify conditions or practices that could result in damaged to the unit or other equipment connected.

**CAUTION!** The unit is designed for indoor use. Do not expose this unit to rain, snow or liquids of any type.

**CAUTION!** To reduce risk of injury, only use qualified batteries from qualified distributors or manufacturers. Any unqualified batteries may cause damage and injury. Do NOT use old or overdue batteries. Please check the battery type and date code before installation to avoid damage and injury.

**CAUTION!** Do not disassemble the inverter. Contact with the qualified service center when service or repair is required.

**WARNING!** Provide ventilation to outdoors from the battery compartment. The battery enclosure should be designed to prevent accumulation and concentration of hydrogen gas at the top of the compartment.

**CAUTION!** Use insulated tools to reduce the chance of short-circuit when installing or working with the inverter, the batteries, or other equipments attached to this unit.

**CAUTION!** For battery installation and maintenance, read the battery manufacturer's installation and maintenance instructions prior to operating.

#### **Personnel Precaution -**

**CAUTION!** Careful to reduce the risk or dropping a metal tool on the batteries. It could spark or short circuit the batteries and could cause an explosion.

**CAUTION!** Remove personal metal items such as rings, bracelets, necklaces, and watches when working with batteries. Batteries can produce a short circuit current high enough to make metal melt, and could cause severe burns.

**CAUTION!** Avoid touching eyes while working near batteries.

**CAUTION!** Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.

CAUTION! NEVER smoke or allow a spark or flame in vicinity of a battery.

**CAUTION!** If a remote or automatic generator start system is used, disable the automatic starting circuit or disconnect the generator to prevent accident during servicing.

#### 4. Specifications

MODEL	1200	2400	
CAPACITY	1200 VA / 720 W	2400 VA / 1440 W	
INPUT			
Voltage	230 VAC		
Voltage Range	90-280 VAC		
OUTPUT			
Voltage Regulation (Batt. Mode)	+/-10%		
Transfer Time	20 ms typical		
Waveform	Simulated Sine Wave		
BATTERY			
Battery Type and Numbers	12 V 100Ah x 1	12 V 100Ah x 2	
PHYSICAL			
Dimension (DxWxH) mm	392X250X450	345X400X450	
Net Weight (kgs)	40.5	75.8	

#### 5. Installation

**NOTE:** Before installation, please inspect the unit. Be sure that nothing inside the package is damaged.

#### **Connect to Utility and Charge**

Plug in the AC input cord to the wall outlet. The unit will automatically charge the connected external battery even though the unit is off.

## 6. Operation

#### Power On/Off

Once the inverter has been properly installed, press the power switch to turn on the unit. The unit will work automatically in line mode or inverter mode according to input utility power's status. When press the power switch again, the unit will be turned off.

# 7. Trouble Shooting

Use the table below to solve minor problems.

Problem	Possible Cause	Solutions	
Utility power is normal but the unit	AC input power cord is not connected well.	Check AC input power connection.	
is in battery mode.	Input breaker is activated.	Reset the input breaker.	
When power fails, the backup time is	The unit is overload.	Remove some non-critical loads.	
shorten.	Battery voltage is too low.	Charge the unit at least 8 hours.	
	Battery capacity is not full even after charge the unit for at least 8 hours.	Check the date code of the battery. If the batteries are too old, replace the batteries.	
No LED display on the front panel when	The unit is not turned on.	Press power switch to turn on the unit.	
the utility power is normal.	Battery is not connected well.	Check the external battery cable and terminal. Make sure all the battery connections to the unit are all correct.	
	Battery defect.	Replace the batteries.	
	Battery voltage is too low.	Charge the unit at least 8 hours.	
The unit is in fault and restart circularly.	The unit is overload.	Verify that the load matches the capability specified in the specification.	
	Output is short circuited.	Check the loads and remove loads which cause short circuit.	

If there is any abnormal situations occur, which doesn't list above, please call the service people immediately for professional examine.

# **LED Indicators & Audible Alarms**

There are three indicators (Green/Red/Yellow) in the front panel of the unit.

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Statu		LCD	Indicator	Alarm		
Power on: w unit is power will enter this for 3 second	red on, it s mode s.		Three LEDs are on for few seconds.	Off		
Standby Mode: the bypass output and charger are turn on.			Floating charging: Green LED steady flash every 10 seconds Constant charging mode: Green LED quickly flashing.	Off		
Line Mode		Constant of the second	Floating charging: Green LED on. Constant charging mode: Green LED flashing.	Off		
Overcharging Mode	g in Line		Red LED flashes every four seconds.	Continuously sounding		
Battery Mode	e		Yellow LED on.	Off		
Low battery i Mode	in Battery	Out and ■ icons will flash.	Yellow LED flashes every second.	Sounding every 2 seconds		
Overload: when connected load is	AC mode		Red LED flashes every 0.5 second.	Sounding every 0.5 second		
over 110%	Battery Mode	Under Construction				
Fault Mode		0	Red LED on.	Continuously sounding		