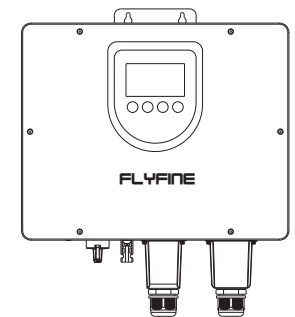


A Leading Energy Solution
Manufacturer Vendor

FLYFINE

User Manual Single-Phase Solar Inverter

- 4kW Inverter ◦
- 6kW Inverter ◦
- 10kW Inverter ◦
- 15kW Inverter ◦



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1.ABOUT THIS MANUAL

1.1 Purpose

This manual describes the assembly, installation, operation and troubleshooting of this unit. Please read this manual carefully before installations and operations, Keep this manual for future reference.

1.2 Scope

This manual provides safety and installation guidelines as well as information on tools and wiring.

2.SAFETY INSTRUCTIONS

WARNING

- This chapter contains important safety and operating instructions. Read and keep this manual for future reference.
- Only qualified service persons are able to service this device. If errors still persist after following troubleshooting table, please send this inverter/charger back to local dealer or service center for maintenance.

- 1.Before using the unit, read all instructions and cautionary markings on the unit, all appropriate sections of this manual.
- 2.Do not disassemble the unit. Take it to a qualified service center when service or repair is required .Incorrect reassembly may result in a risk of electric shock or fire.
- 3.To reduce risk of electric shock, disconnect all wirings before attempting any maintenance or cleaning. Turning off the unit will not reduce this risk.
- 4.For optimum operation of this inverter/charger, please follow required spec to select appropriate cable size. It's very important to correctly operate this inverter/charger.
- 5.Please strictly follow installation procedure when you want to disconnect AC or DC terminals. Please refer to installation section of this manual for the details.
- 6.This inverter/charger should be connected to a permanent grounded wiring system. Be sure to comply with local requirements and regulation to install this inverter.
- 7.Never cause AC output and DC input short circuited. Do not connect to the mains when DC input short circuits.

3. INTRODUCTION

This is a multi-function inverter, combining functions of inverter, Its comprehensive LCD display offers user-configurable and easy-accessible button operation.

3.1 Features

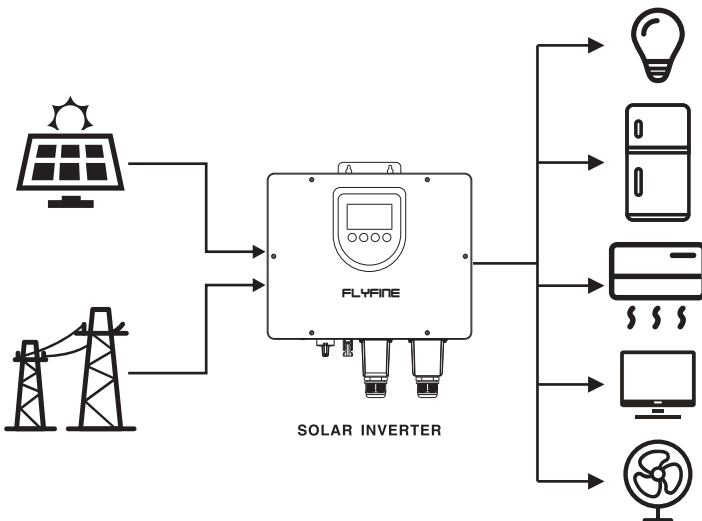
1. Pure sine wave inverter.
2. Configurable input voltage range for home appliances and personal computers via LCD setting.
3. Combind to the grid based on applications via LCD setting.
4. Compatible to mains voltage.
5. Auto restart while AC is recovering.
6. Overload/ Over temperature/ short circuit protection.
7. Cold start function.

3.2 Basic System Architecture

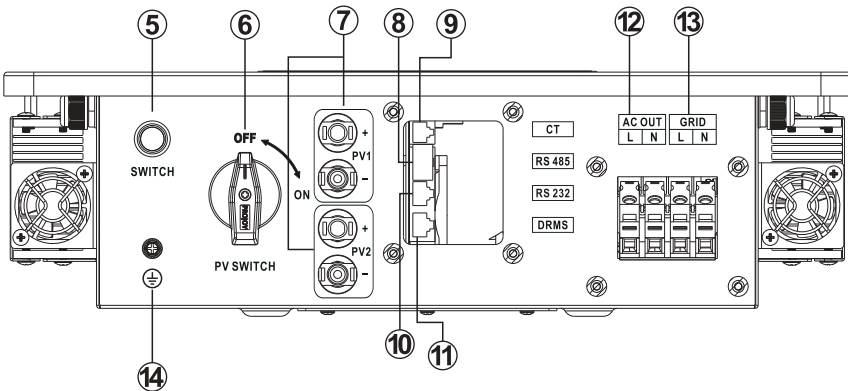
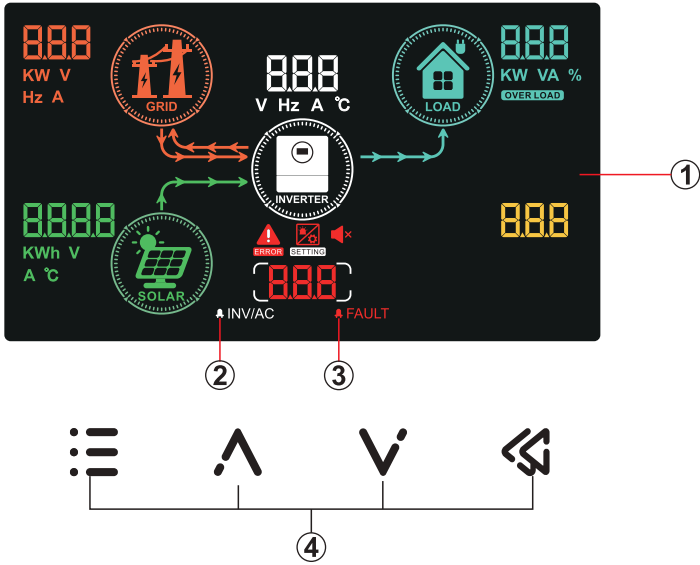
The following illustration shows basic application for this inverter. It also includes following devices to have a complete running system:

1. Generator or Utility.
2. PV modules.

Consult with your system integrator for other possible system architectures depending on your requirements. This inverter can power all kinds of appliances in home or office environment, including motor-type appliances such as tube light, fan, refrigerator and air conditioner.



3.3 Product Overview



- | | |
|------------------------|------------------------|
| 1. LCD display | 8. RS-485 port |
| 2. Status indicator | 9. Current Transformer |
| 3. Fault indicator | 10. RS-232 port |
| 4. Function keys | 11. DRMS port |
| 5. Power on/off switch | 12. AC output |
| 6. PV switch | 13. GRID |
| 7. PV1 and PV2 input | 14. Ground terminal |

4 INSTALLATION

4.1 Unpacking And Inspection

Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. You should have received the following items inside of package:

- ▶ The Unit x 1
- ▶ User Manual x 1
- ▶ Current Transformer x 1
- ▶ WIFI x 1
- ▶ MC4 Terminal Positive Pole x 2
- ▶ MC4 Terminal Negative Pole x 2
- ▶ Waterproof Cover x 2
- ▶ Cable Gland x 2

4.2 Mounting The Unit

Consider the following points before selecting where to install:

1. Do not mount the inverter on flammable construction materials.
2. Mount on a solid surface.
3. Install this inverter at eye level in order to allow the LCD display to be read at all times.
4. For proper air circulation to dissipate heat, allow a clearance of approx. 20 cm to the side and approx. 50 cm above and below the unit.
5. The ambient temperature should be between 0°C and 55°C to ensure optimal operation.
6. The recommended installation position is to be adhered to the wall vertically.
7. Make sure that other objects and surfaces are left with enough space from the machine to ensure adequate heat dissipation and that there is enough room to remove the wires.

! CAUTION

- Suitable for mounting on concrete or other non-combustible surface only.

Install the unit by screwing two screws. It's recommended to use M4 or M5 screws.

4.3 AC Input/Output Connection

⚠ CAUTION

- Before connecting to AC input power source, please install a separate AC breaker between inverter and AC input power source. This will ensure the inverter can be securely disconnected during maintenance and fully protected from over current of AC input. The recommended spec of AC breaker is 32A for 4KW, 50A for 6KW, and 85A for 10KW, and 125A for 15KW.
- There are two terminal blocks with "IN" and "OUT" markings. Please do NOT mis-connect input and output connectors.

⚠ WARNING

- All wiring must be performed by a qualified personnel.
- It's very important for system safety and efficient operation to use appropriate cable for AC input connection. To reduce risk of injury, please use the proper recommended cable size as below.

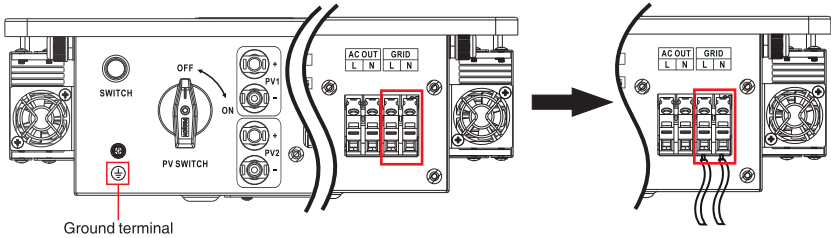
Suggested cable requirement for AC wires:

Model	Wire size	Cable(mm ²)	Torque value(max)
4KW	12AWG	4	1.2N · m
6KW	10AWG	6	1.2N · m
10KW/15KW	8AWG	6	1.2N · m

Please follow below steps to implement AC input/output connection:

1. Before making AC input/output connection, be sure to open DC protector or disconnect first.
2. Remove insulation sleeve 10mm for six conductors. And shorten phase L and neutral conductor N3 mm.
3. Insert AC input wires according to polarities indicated on terminal block and tighten the terminal screws.

- L→LINE(brown or red)
- N→Neutral(blue or black)
- ⊕→Ground(green & yellow)

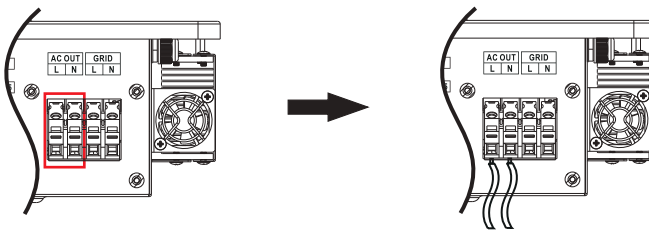


⚠ WARNING

- Be sure that AC power source is disconnected before attempting to hardwire it to the unit.

4. Then, insert AC output wires according to polarities indicated on terminal block and tighten terminal screws.

- L→LINE(brown or red)
- N→Neutral(blue or black)



5. Make sure the wires are securely connected.

⚠ CAUTION

- Appliances such as air conditioner are required at least 2~3 minutes to restart because it's required to have enough time to balance refrigerant gas inside of circuits. If a power shortage occurs and recovers in a short time, it will cause damage to your connected appliances. To prevent this kind of damage, please check manufacturer of air conditioner if it's equipped with time-delay function before installation. Otherwise, this inverter/charger will trig overload fault and cut off output to protect your appliance but sometimes it still causes internal damage to the air conditioner.

4.4 PV Connection

⚠ CAUTION

- Before connecting to PV modules, please install separately a DC circuit breaker between inverter and PV modules.

⚠ WARNING

- It's very important for system safety and efficient operation to use appropriate cable for PV module connection. To reduce risk of injury, please use the proper recommended cable size as below.

Model	Wire size	Cable(mm ²)	Torque value(max)
4KW/6KW/10KW/15KW	1×12AWG	4	1.2N · m

PV Module Selection:

When selecting proper PV modules, please be sure to consider below parameters:

- 1.Open circuit Voltage (Voc) of PV modules not exceeds max. PV array open circuit voltage of inverter.
- 2.Open circuit Voltage (Voc) of PV modules should be higher than 150V.

Inverter Model	4KW/6KW/10KW/15KW
Max. PV Array Open Circuit Voltage	500Vdc
PV Array MPPT Voltage Range	60Vdc~450Vdc

Take 700Wp PV module as an example. After considering above two parameters, the recommended module configurations are listed as below table.

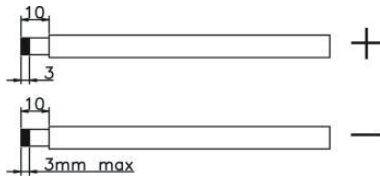
Solar Panel Spec. (reference)	Solar input	Q'ty of panels	Total input power
	(Min in serial: 3 pcs, max. in serial: 9 pcs)		
-700Wp	3 pcs in serial	3 pcs	2100W
-Vmp: 40.5V	7 pcs in serial	7 pcs	4900W
-Imp: 17.29A	9 pcs in serial	9 pcs	6300W
-Voc: 48.6V	7 pieces in serial and 2 sets in parallel	14 pcs	9800W
-Isc: 18.32A			
-Cells:288(144×2)			

	9 pieces in serial and 2 sets in parallel	18 pcs	12600W
	7 pieces in serial and 3 sets in parallel	21 pcs	14700W

PV Module Wire Connection

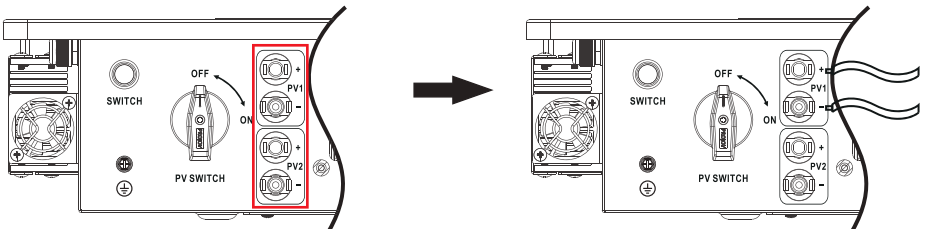
Please follow below steps to implement PV module connection:

- 1.Remove insulation sleeve 10 mm for positive and negative conductors.
- 2.Suggest to put bootlace ferrules on the end of positive and negative wires with a proper crimping tool.



3. Check correct polarity of wire connection from PV modules and PV input connectors. Then, connect positive pole (+) of connection wire to positive pole (+) of PV input connector. Connect negative pole (-) of connection wire to negative pole (-) of PV input connector.

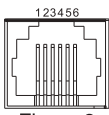
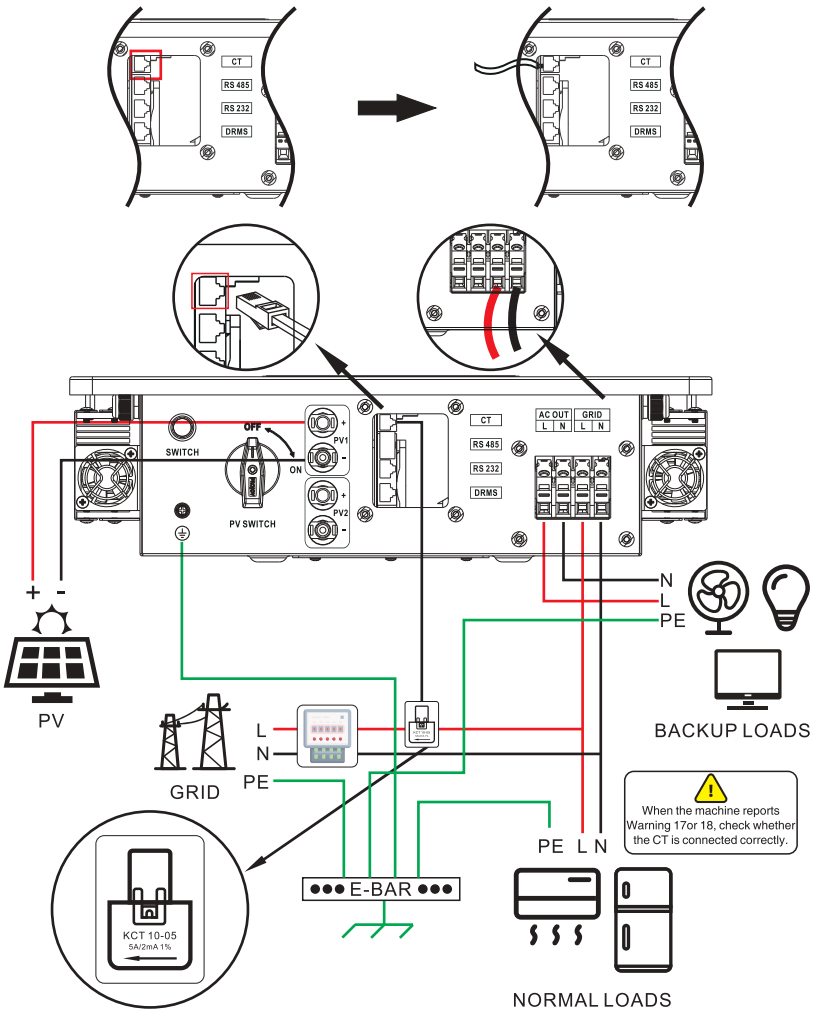
Recommended tool: 4mm blade screwdriver



*This diagram uses a 6KW machine as an example. 4KW machine is single PV, 6KW machine is dual PV, 10KW machine is three PV and 15KW machine is four PV.

4.5 Current Transformer Connection

Insert the crystal head of the CT sensor into the network port with the CT logo.

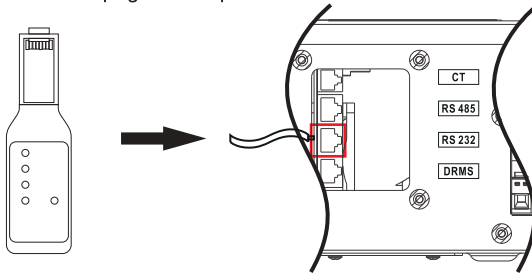


*Note: For CTs that are not part of our original factory's standard configuration, the wiring pins must be connected to positions 1 and 2. Position 1 is positive, and position 2 is negative.

4.6 Communication Connection

1. Wi-Fi cloud communication:

Please use supplied communication cable to connect to inverter and Wi-Fi module. Download APP and installed from APP store, and refer to "Wi-Fi Plug Quick Installation Guideline" to set up network and registering. The inverter status would be shown by mobile phone APP or webpage of computer.



Plug the WIFI module into the RS232 logo and network port

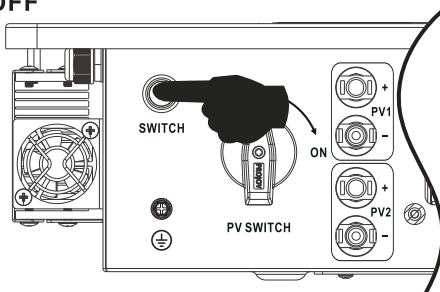
RS485	
1	485B
2	485A
3	GND
4	/
5	/
6	/
7	/
8	/

RS232	
1	232RX
2	232TX
3	/
4	5V+
5	/
6	/
7	/
8	GND

Communication port definition

5 OPERATION

5.1 Power ON/OFF





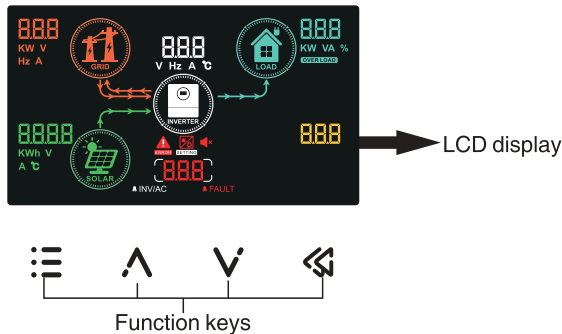
Once the unit has been properly installed, simply press on switch (located on the button of the case) to turn on the unit.

5.2 Operation And Display Panel

The operation and display panel, shown in below chart, is on the front panel of the inverter. It includes second indicators, four function keys and a LCD display, indicating the operating status and input/output power information.

LED Indicator

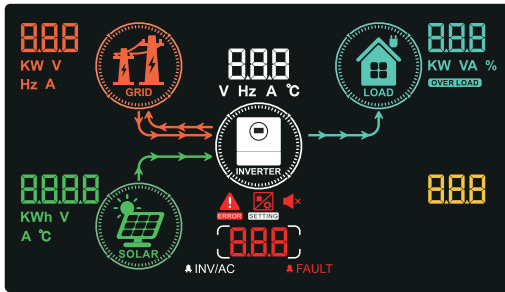
LED Indicator		Messages	
 INV/AC	White	Solid On	Output is powered by utility in Line mode.
		Flashing	Output is powered by PV.
 FAULT	Red	Solid On	Fault occurs in the inverter.



Function keys

Function key	Description
ESC	To exit setting mode
UP	To go to previous selection
DOWN	To go to next selection
ENTER	To confirm the selection in setting mode or enter setting mode

5.3 LCD Display Icons



Icon	Function description
	Indicate grid power, voltage, frequency, and current.
	Indicate PV power, electricity generation, voltage, and temperature.
	Indicate the active power, apparent power, and power percentage of the load.
	Indicate system temperature, output voltage, frequency, and current.
	Indicate the fault code.
	Indicate warning code.
	Indicate system settings.
	Indicate that the buzzer is turned off.
	Display time.

5.4 LCD Setting

After pressing and holding ENTER button for 3 seconds, the unit will enter setting mode. Press "UP" or "DOWN" button to select setting programs. And then, press "ENTER" button to confirm the selection or ESC button to exit.

Setting Programs:



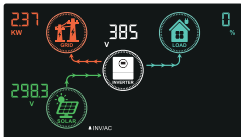

Program	Description	Selectable option	
00	Exit setting mode	Escape 00 00E	One-button restore setting options.
		(default) 00 00H	
01	Output source priority: To configure load power source priority	Utility first 01 US	Utility will provide power to the loads as first priority. Solar will provide power to the loads only when utility power is not available.
		Solar first (default) 01 SU	Solar energy provides power to the loads as first priority. If solar energy is not sufficient to power all connected loads, utility will supply power to the loads at the same time. -Solar energy and utility is not available. - Solar energy is not sufficient and utility is not available.
03	AC input voltage range	Appliances (default) 03 RPL	If selected, acceptable AC input voltage range will be within 90-280Vac.
		UPS 03 UPS	If selected, acceptable AC input voltage range will be within 170-280Vac.
06	Auto restart when overload occurs	Restart disable (default) 06 LFD	Restart enable 06 LFE
07	Auto restart when over temperature occurs	Restart disable (default) 07 LFD	Restart enable 07 LFE
09	Output frequency	50Hz(default) 09 50 _{Hz}	60Hz 09 60 _{Hz}






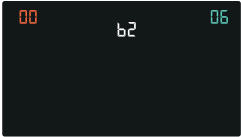
10	Output voltage	220V 10 220 ^v	230V(default) 10 230 ^v	240V 10 240 ^v
18	Alarm control	Alarm on (default) 18 60N	When the buzzer beeps for more than 90 seconds without action, it will automatically turn off.	
		Alarm off 18 60F		
19	Auto return to default display screen	Return to default display screen (default) 19 65P	If selected, no matter how users switch display screen, it will automatically return to default display screen (Input voltage/output voltage) after no button is pressed for 1 minute.	
		Stay at latest screen 19 65P	If selected, the display screen will stay at latest screen user finally switches.	
20	Backlight control	Backlight on (default) 20 L0N	Backlight off 20 L0F	
22	Beeps while primary source is interrupted	Alarm on (default) 22 A0N	Alarm off 22 A0F	
23	Overload bypass: When enabled, the unit will transfer to line mode if overload occurs in PV mode.	Bypass disable (default) 23 b4d	Bypass enable 23 b4E	
37	GRID-tie operation	Off-grid (default) 37 0FF	Inverter operates only in off-grid mode. Solar energy provides power to the loads.	
		Hybrid 37 HYd	Inverter operates hybrid mode. Solar energy provides power to the loads as first priority and charging second Excess energy feed to grid.	
38	GRID-tie current	2A(default) 38 02 ^A	Settings range from 2 amps to 16 amps for 4 KW models. Setting range is from 2A to 26A for 6KW model. Setting range is from 2A to 42A for 10KW model. Settings range from 2 amps to 64 amps for 15 kW models increment of each click is 2A.	
40	CT	CT off(default) 40 C6d	CT on 40 C6E	


41	CT ratio	(default)	If our factory's default CT is selected, the default value is 5A/2mA, and the corresponding CT ratio is 2500.				
		(optional)	If other CTs are to be used, please pay attention to the CT wiring method (refer to <Figure 3> on Page 10). The CT ratio can be selected from 1000 to 9500, in increments of 500. For example: 1000, 1500, 2000... 8500, 9000, 9500.				
		Calculation method of CT ratio: For example, 1. For a 5A/2mA CT, the CT ratio is calculated as: $5A/2mA = 5/0.002 = 2500$, so the CT ratio is 2500; 2. For a 100A/33.33mA CT, the CT ratio is calculated as: $100A/33.33mA = 100/0.03333 = 3000$, so the CT ratio is 3000; 3. For a 100A/50mA CT, the CT ratio is calculated as: $100A/50mA = 100/0.05 = 2000$, so the CT ratio is 2000, and so on.					
43	GFCI	GFCI off(default)	GFCI on				
		43	OFF	43	OFF		
81	Time setting-Year	YER 81 25	YER 81 26	.....	YER 81 98	YER 81 99	
82	Time setting-Month	MON 82 01	MON 82 02	.....	MON 82 11	MON 82 12	
83	Time setting-Day	DAY 83 01	DAY 83 02	.....	DAY 83 30	DAY 83 31	
84	Time setting-Hour	HOU 84 00	HOU 84 01	.....	HOU 84 22	HOU 84 23	
85	Time setting-Minute	MIN 85 00	MIN 85 01	.....	MIN 85 58	MIN 85 59	
86	Clear Energy	86 d 15 (default)			86 EN		

5.5 Display Setting






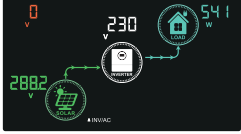
The LCD display information will be switched in turns by pressing “UP” or “DOWN” key. The selectable information is switched as below order: input voltage/output voltage, input frequency, PV voltage, output frequency, load percentage, load in VA, load in Watt, Daily power generation, Monthly power generation, Gross generation, Date, Time, Model, hardware and software version numbers.

Selectable Information	LCD Display
GRID Voltage/Output Voltage/ Output Power/PV 1 Voltage (Default Display Screen)	<p>GRID Voltage=230V, Output Voltage=230V, Output Power=1.0KW, PV 1 Voltage=251.3V</p> 
GRID Frequency/Output Frequency/ Output Apparent Power/PV 1 Power	<p>GRID Frequency=50Hz, Output Frequency=50Hz, Output Apparent Power=1.0KVA, PV 1 Power=1.035KW</p> 
Feed-in Grid Power/BUS Voltage/ Output Power Percentage/PV 2 Voltage	<p>Feed-in Grid Power=2.37KW, BUS Voltage=385V, Output Power Percentage=0%, PV 2 Voltage=298.3V</p> 
GRID Voltage/Ambient Temperature/ CT Load Power/PV 2 Power	<p>GRID Voltage=230V, Ambient Temperature=41°C, CT Load Power=0W, PV 2 Power=0KW</p> 

















<p>GRID Frequency/INV Temperature/ Output Power Percentage/ PV Temperature</p>	<p>GRID Frequency=50Hz, INV Temperature=27°C, Output Power Percentage=17%, PV Temperature=33°C</p> 
<p>Year, Month, Day/ Daily Electricity Generation</p>	<p>June 20th, 2025, Daily Electricity Generation=2.482kwh</p> 
<p>Year, Month, Day/ Monthly Electricity Generation</p>	<p>June 20th, 2025, Monthly Electricity Generation=191.7kwh</p> 
<p>Year, Month, Day/ Year Electricity Generation</p>	<p>June 20th, 2025, Year Electricity Generation=599.4kWh</p> 
<p>Hour, Minute, Second/ Total electricity generation</p>	<p>Time: 16:51:44 Total electricity generation=599.4kWh</p> 
<p>CPU 1 version checking</p>	<p>CPU 1 version 00 b2 06</p> 

<p>CPU 2 version checking</p>	<p>CPU 2 version 56 b1 06</p> 
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




5.6 Operating Mode Description

Operation Mode	Selectable Information	LCD Display
<p>Standby Mode</p>	<p>Input Voltage=230V, INV Voltage=0V, Output Power=0KW, PV 1 Input Voltage=0V.</p>	
	<p>Input Voltage=0V, INV Voltage=0V, Output Power=0W, PV 1 Input Voltage=155.5V.</p>	
	<p>Input Voltage=230V, INV Voltage=0V, Output Power=0KW, PV 1 Input Voltage=155.5V.</p>	
<p>Line Mode</p>	<p>Input Voltage=230V, INV Voltage=230V, Output Power=541W, PV 1 Input Voltage=0V.</p>	
	<p>Input Voltage=230V, Output Voltage=230V, Output Power=541W, PV 1 Input Voltage=288.2V.</p>	
	<p>Input Voltage=0V, Output Voltage=230V, Output Power=541W, PV 1 Input Voltage=288.2V.</p>	

5.7 Fault Reference Code

Fault Code	Fault Event	Icon on
F01	Fan is locked when inverter is off.	
F02	Over temperature.	
F05	Output short circuited.	
F06	Output voltage is too high.	
F07	Overload time out.	
F08	Bus voltage is too high.	
F15	Slave Internal SCI Fail.	
F16	Mater Internal SCI Fail.	
F51	Over current.	
F52	Bus voltage is too low.	
F53	Inverter soft start failed.	
F55	Over DC voltage in AC output.	
F56	GFCI Fault.	
F57	Current sensor failed.	
F58	Output voltage is too low.	
F59	PV voltage is over limitation.	

5.8 Warning Indicator

Warning Code	Warning Event	Audible Alarm	Icon flashing
01	Fan is locked when inverter is on.	Beep three times every second	
02	Temperature sensor not connected.	Beep once every 0.5 second	
07	Overload.	Beep once every 0.5 second	
10	Output power derating.	Beep twice every 3 seconds	
15	PV energy is low.	Beep once every 3 seconds	
17	CT reverse connection.	Beep once every 0.5 second	
18	CT not connected.	Beep once every 0.5 second	

6 SPECIFICATIONS

Table 1 Line Mode Specifications

INVERTER MODEL	4KW	6KW	10KW	15KW
Input Voltage Waveform	Sinusoidal (utility or generator)			
Nominal Input Voltage	230Vac			
Low Loss Voltage	170Vac±7V(UPS) 90Vac±7V(APL)			
Low Loss Return Voltage	180Vac±7V(UPS) 100Vac±7V(APL)			
High Loss Voltage	280Vac±7V			
High Loss Return Voltage	265Vac±7V			
Max AC Input Voltage	300Vac			
Nominal Input Frequency	50Hz/60Hz(Auto detection)			
Low Loss Frequency	40±1Hz			
Low Loss Return Frequency	42±1Hz			
High Loss Frequency	65±1Hz			
High Loss Return Frequency	63±1Hz			
Transfer Time	10ms typical (UPS)			
Output power derating: When AC input voltage drops to 170V the output power will be derated.				

Table 2 Inverter Mode Specifications

INVERTER MODEL	4KW	6KW	10KW	15KW
Rated Output Power	4KW	6KW	10KW	15KW
Output Voltage Waveform	Pure Sine Wave			
Output Voltage Regulation	230Vac±5%			
Output Frequency	50Hz			
Overload Protection	3s @ ≥ 150% load; 5s @ 101%~150% load			
Surge Capacity	2* rated power for 5 seconds			
No Load Power Consumption	30W	30W	35W	50W

Table 3 MPPT Solar Mode Specifications

MPPT Solar Mode				
INVERTER MODEL	4KW	6KW	10KW	15KW
Max.PV Array Power	4500W*1	4500W*2	4500W*3	4500W*4
Nominal PV Voltage	250Vdc			
PV Array MPPT Voltage Range	60Vdc~450Vdc			

Table 4 Grid-Tie Operation(Optional)

INVERTER MODEL	4KW	6KW	10KW	15KW
Nominal Output Voltage	220/230/240Vac			
Feed-in Grid Voltage Range	195Vac~253Vac			
Feed-in Grid Frequency Range	50±2Hz/60±2Hz			
Nominal Output Current	17.5A	26.5A	43.5A	65.5A
Power Factor Range	>0.99			
Maximum Conversion Efficiency (DC/AC)	97%			

Table 5 General Specifications

INVERTER MODEL	4KW	6KW	10KW	15KW
Safety Certification	CE			
Operating Temperature Range	-10°C ~ 50°C			
Storage Temperature	-15°C~ 60°C			
Humidity	5% to 95% Relative Humidity(Non-condensing)			

7 TROUBLE SHOOTING

Problem	LCD/LED/Buzzer	Explanation /Possible cause	What to do
Buzzer beeps continuously and red LED is on.	Fault code 01	Fan fault	Check the fan or replace the fan
	Fault code 02	The inverter is overheated.	Check whether the ventilation around the equipment is good and whether the radiator air duct is blocked.
	Fault code 05	Output short circuited.	Check if wiring is connected well and remove abnormal load.
	Fault code 06/58	Output abnormal. (Inverter voltage below than 190Vac or is higher than 260Vac)	1. Reduce the connectedload. 2. Return to repair center.
	Fault code 07	Overload error. The inverter is overload 101% and time is up.	Reduce the connected load by switching off some equipment.
	Fault code 08/53/57	Internal components failed.	Return to repair center.
	Warning code 17	CT reverse connection.	Check if the dir ection of the CT clamped onto the mains live (L) wire is pointing toward the main mains power supply. If the issue is not resolved despite confirming the direction is correct,please replace the CT or send it to the repair center.
	Warning code 18	CT not connected.	1.Check if the CT is inserted into the CT network port. 2.Check if the CT is not securely connect-ed to the live wire of the mains power. If so, please secure it properly.Pay attentionto the direction of the CT arrow. 3.Replace the CT or send it to the repair center.
	Fault code 51	Over current or surge.	Restart the unit, if the error happens again, please return to repair center.
Fault code 52	Bus voltage is too low.		
Fault code 55	Output voltage is unbalanced.		