

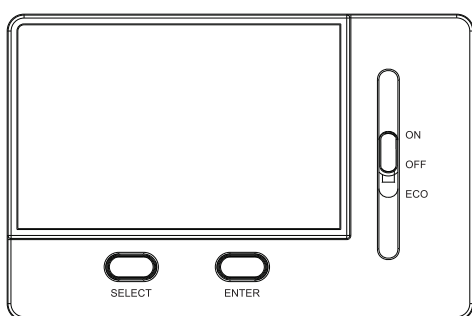
Operation Manual

RM-9 Operation Manual of Liquid Crystal Display Unit

I. Product features

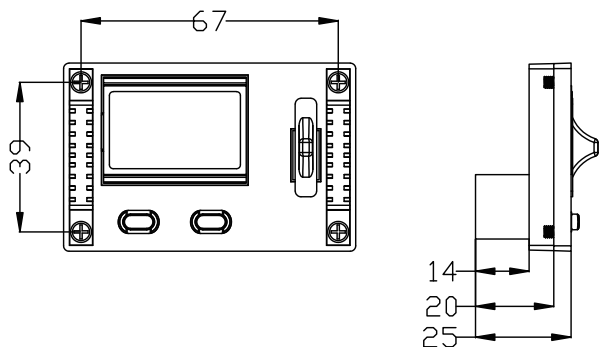
- ◆ LCD screen designed with backlight.
- ◆ Support real-time data display and parameter setting.
- ◆ Communication line integrates power supply and communication function.
- ◆ Adopt RS485 communication mode to automatically adapt baud rate of the controller.
- ◆ The enclosure of magnetic type design is convenient and simple for installation.

II. Appearance

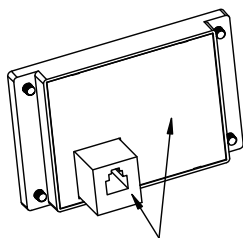


III. Installation dimensions

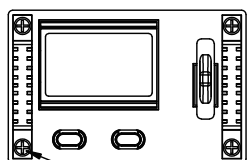
Product dimensions: 79*52*32 mm
Installation dimensions: 67*39 mm



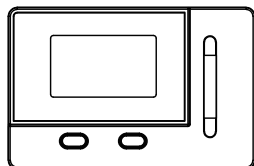
IV. Installation steps



1. Reserve embedded area (for embedded installation)



2. Open the magnetic upper cover and fix it with four M3 screws.



3. Close the magnetic chuck

V. Technical parameters

参数名称	Parameter values
Model	RM-9
Input voltage	5V-12V
Stand-by power consumption	<0.1W
Operation power consumption	<0.36W
Communication baud rate	1200-11520bps (9600bps by default)
Communication method	RS485
Communication interface	RJ45
Cable length	6.0m
Operating temperature	-35°C ~+65°C
Protection grade	IP32
Weight	90g
Altitude	≤ 3000M
Product dimensions	79*52*32mm

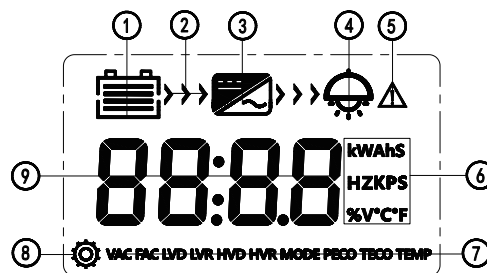
VI. Operation of keys

Button	Function
SELECT	Menu/parameter switching
ENTER	Set/adjust parameters

Parameter setting method

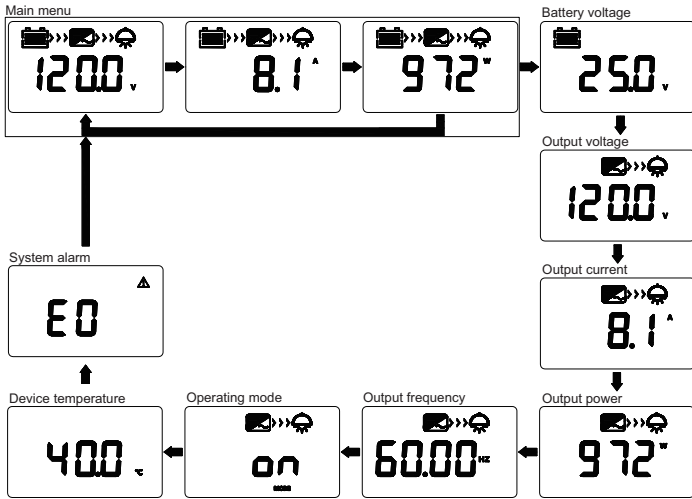
- ① Press and hold the "ENTER" key for 2 seconds to enter the "Parameter Setting" menu;
- ② Short press the "SELECT" key to select "Setting Item";
- ③ Short press the "ENTER" key, and the parameter blinks to enter the adjustable state.
- ④ Short press the "SELECT" key to adjust the parameter;
- ⑤ Short press the "ENTER" key to confirm the modified parameter, and repeat ② to ⑤ to modify other parameters.
- ⑥ Press and hold the "ENTER" key for 2 seconds, or keep no key pressed for more than 10 seconds to save and exit the setting mode.

VII. Liquid crystal menu

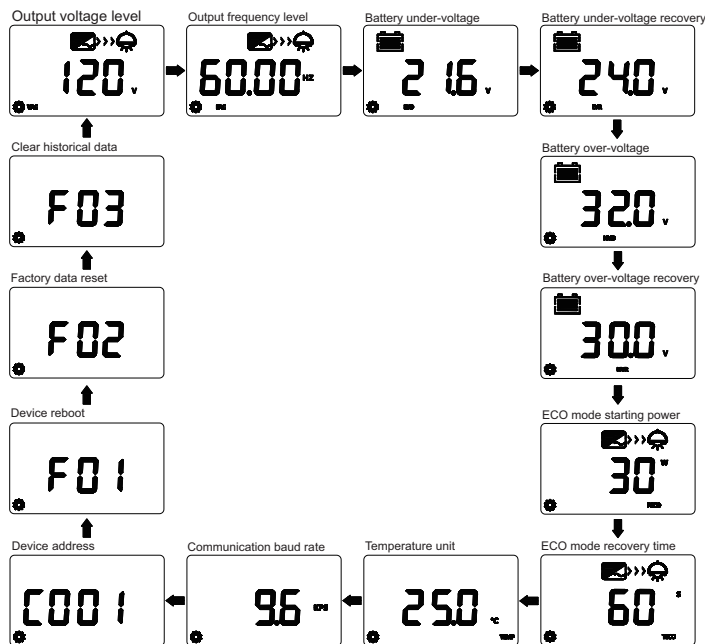


No.	Name	No.	Name
①	Battery	⑥	Unit display
②	Inverter indication	⑦	Setting stage
③	Inverter	⑧	Setting indication
④	AC load	⑨	Parameter display
⑤	System alarm		

2. Menu browsing

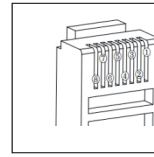


3. Setting menu



IX. RS485 communication

- 1) Default baud rate: 9,600 kps; check bit: none; data bit: 8 bit; stop bit: 1 bit
- 2) Interface type: RJ45, communication power supply output specification: 5V/200mA
- 3) Definition of line sequence:



No.	Definition
①	Communication power supply VCC
②	D+
③	D-
④	Communication power supply GND

X. System alarms

No.	System alarm	Description
1	E0	Normal
2	E1	Battery over-discharge
3	E2	Battery over-voltage
4	E4	Load short-circuited
5	E5	Overload
6	E6	Device over-temperature
7	E7	Fan fault
8	E8	Model fault

VIII. System settings

No.	LCD	Setting item	Parameter range	Remarks
1	VAC	Output voltage level	110V/120V	IU series
			220V/230V/240V	IC series
2	FAC	Output frequency level	50HZ/60HZ	
3	LVD	Battery over-discharge voltage	10.0 ~ 15.0V	The 12V system corresponds to this value; The corresponding value for the 24V system is multiplied by 2
4	LVR	Battery over-discharge reconnect voltage	11.0 ~ 15.0V	
5	HVD	Battery over-voltage	12.0 ~ 16.0V	
6	HVR	Battery over-voltage recovery	11.0 ~ 15.0V	
7	PECO	ECO mode starting power	30 ~ 100W	
8	TECO	ECO mode recovery time	30 ~ 1800S	
9	TEMP	Device temperature unit	°C/°F	
10	KPS	RS485 communication baud rate	1200 ~ 115200KPS	
11	C001	Device address	1 ~ 247	
12	F01	Device reboot	F01	
13	F02	Factory data reset	F02	
14	F03	Clear historical data	F03	