

CPA-0020-02009D02 Standby UPS 2000VA Model

User & Installation Manual



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Installation and Operation

Inspection

You should receive the following items inside the package:

- UPS Unit
- User Manual
- 2m Input and Output Power Leads

Remove the UPS from its package and inspect it for damage that may have occurred during shipping. If any damage is discovered, re-pack the unit and return it to the place of purchase.

Connect to Utility Power

Connect the AC power cord to utility power. Then, the UPS will start to charge the internal battery. For best results, charge the battery for 6 hours prior to initial use.

Plug in Equipment

Plug your equipment to Battery Backup Outlets on the rear panel of the UPS.

NOTE: Make sure that the UPS is powered on to protect all important devices from data loss during power failure.

CAUTION: NEVER connect a laser printer or scanner to the battery backup outlets of UPS. The equipment may draw significantly power to overload the UPS.



2000VA

- A. Battery backup outlets
- B. AC input
- C. Cooling fan
- D. I/O Port

Connect Com. Port and Install Software

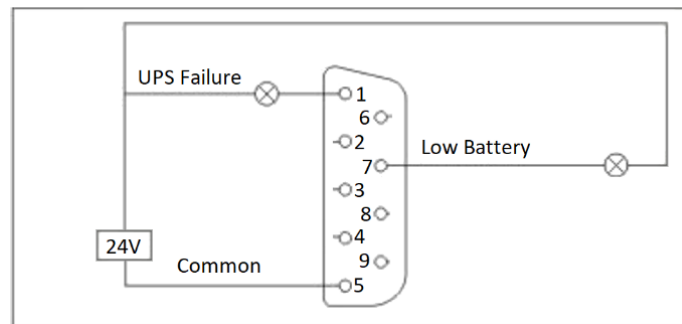
Connect one end of the USB cable to the PC and the other to the USB port at the rear of the UPS.

Download the latest version of ViewPower software from <http://www.power-software-download.com> to your hard drive. Follow the on-screen instructions to complete the software installation.

I/O Port Connections










The UPS has an RS232 DB-9 Port to provide remote monitoring of the UPS status.

Typical internal circuit of the RS2323 DB-9 Port: -






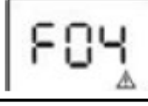


Note: - the outputs are rated for DC voltages only, maximum 24 DC, 1A.

Operation Display

UPS Mode	LCD	Description
UPS Power on		When UPS is powered on, it will enter this mode for 4 seconds.
AC Mode	 <p>When AVR is functioning,  icon will flash every second.</p>	<p>LCD information will be displayed in the following order when LCD is touched.</p> <ol style="list-style-type: none"> 1. Output voltage 2. Input voltage 3. Load level 4. Battery capacity
Overload in AC mode	 <p> icon will flash</p>	When overload occurs, alarm will beep every 0.5 second.
Battery Mode	 <p>When battery level is low,  icon will flash.</p>	<p>Alarm will beep every 10 seconds and LCD information will be displayed in the following order when LCD is touched.</p> <ol style="list-style-type: none"> 1. Output voltage 2. Input voltage 3. Load level 4. Battery capacity
Overload in battery mode	 <p> icon will flash.</p>	When overload occurs, alarm will beep every 0.5 second.

Note: If backlight shuts off, you may activate it by touching the screen.

Fault Code Table

Fault condition	LCD	Solutions
Output short circuited		Disconnect short-circuited loads and restart the UPS again.
Overload fault		Disconnect all output loads and restart the UPS again.
Overcharge		Call for service immediately.
Bad or severely discharged battery		Please replace the battery.
High output voltage fault		Call for service immediately.
Over-temperature		<ol style="list-style-type: none"> 1. Turn off the unit and wait for cooling. 2. Or remove excessive loads and wait for cooling.

SAFETY PRECAUTIONS

- This UPS utilizes voltage levels that may be hazardous. Do not attempt to disassemble the unit. The unit contains no user replaceable parts. Only factory service personnel may perform repairs.
- The mains outlet that supplies the UPS shall be installed near the UPS and shall be easily accessible.
- During the installation of this equipment, it should be assured that the sum of the leakage currents of the UPS and the connected loads does not exceed 3.5mA.
- Connection to any other type of receptacle other than a two-pole, three-wire grounded receptacle may result in a shock hazard as well as violate local electrical codes.
- In the event of an emergency, press the "OFF" button and disconnect the power cord from the AC power supply to properly disable the UPS.
- Do not allow any liquids or any foreign objects to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.
- This unit is intended for installation in a controlled environment (temperature controlled, indoor area free of conductive contaminants). Avoid installing the UPS in locations where there is standing or running water, or excessive humidity.
- Do not plug the UPS input into its own output.

- Do not attach a power strip or surge suppressor to the UPS.
- Do not dispose of batteries in a fire as they may explode.
- Unplug the UPS prior to cleaning and do not use liquid or spray detergent.

A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:

- Remove watches, rings, or other metal objects from the hands.
- Use tools with insulated handles.
- Wear rubber gloves and boots.
- Do not lay tools or metal parts on top of batteries.
- Disconnect charging source prior to connecting or disconnecting the battery terminals.
- Determine if the battery is inadvertently grounded. If inadvertently grounded, remove source from the ground.

Contact with any part of a grounded battery can result in electrical shock. The likelihood of such shock can be reduced if such grounds are removed during installation and maintenance.

WARNING: This is a Category C2 UPS product. In a residential environment, this product may cause radio interference and the user may be required to take additional measures.

Troubleshooting

Problem	Possible Cause	Solutions
Nothing is displayed on the LCD display.	The UPS is not powered on.	Press the power switch again to turn on the UPS.
	Battery voltage is too low.	Charge the battery for at least 6 hours.
	Battery fault.	Replace the battery
The UPS is always in battery mode	Power cord loose.	Plug in the power cord.
The UPS continuously beeps.	Please check the fault code for the details.	Please check the fault code for the details.
Backup time is too short.	Battery voltage is too low.	Charge the battery for at least 6 hours.
	Overload.	Remove some unnecessary loads. Before reconnecting equipment, please verify that the load does not exceed the UPS capacity.
	Battery defect.	Replace the battery.

If any abnormal situations occur that are not listed above, please call for service immediately.

Specifications

MODEL NUMBER		CPA-0020-02009-D02
CAPACITY	Power rating	2000VA (1200W)
INPUT	Voltage	230VAC
	Frequency	60/50 Hz (Auto-sensing)
OUTPUT	Voltage	230VAC
	Waveform	Sine wave (normal), simulated sine wave (battery mode)
	Frequency	60Hz ± 1Hz
	Transfer time	4 ms (typical)
BATTERY	Battery type	Sealed, maintenance-free lead acid
	Battery quantity and size	(2) 12V 9AH
	Recharge	4–6 hours to 90% capacity
PHYSICAL	UPS dimensions (W x D x H)	130 x 66 x 180 mm
	UPS weight	10.7 kg 10.7 kg
	Input connection	C14 inlet
	Receptacles	(6) C13
ENVIRONMENT	Operating temperature	0–40°C
	Humidity	0–90%
	Altitude	3505 meters above sea level
INDICATORS & ALARMS	LCD display	AC mode, battery mode, load/battery level, input/output voltage, overload fault, low battery
APPROVALS		CE, RoHS
COMMUNICATIONS INTERFACE		RS232
INCLUDED IN BOX		Shutdown and monitoring software, USB cable, user manual

Battery Runtimes

System Load	250VA	500VA	1000VA	1500VA	2000VA
CPA-0020-02009-D02	30	11	3	1.5	<1

(Runtimes are shown in minutes and will vary based on battery age and site conditions.)

Obtaining Service

If the UPS requires Service:

1. Use the TROUBLESHOOTING section in this manual to eliminate obvious causes.
2. Verify there are no circuit breakers tripped.
3. Call your dealer for assistance. If you cannot reach your dealer, or if they cannot resolve the problem, contact CP Automation at +44 (0)1234 349191. Technical support inquiries can also be made at elevatorsales@cpaltd.net. Please have the following information available **BEFORE** calling the Technical Support Department:
 - Your name and address.
 - The serial number of the unit.
 - Where and when the unit was purchased.
 - All the model information about your UPS.
 - Any information on the failure.
 - A description of the protected equipment, including model numbers if possible.
 - A technician will ask you for the above information and, if possible, help solve your problem over the phone. In the event that the unit requires factory service, the technician will issue you a Return Material Authorization number (RMA)