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CyberPower[®]
Reliability. Quality. Value.

User's Manual

CPS1500PIE

SAFETY AND EMC INSTRUCTIONS

This manual contains important safety instructions. Please read and follow all instructions carefully during installation and operation of the unit. Read this manual thoroughly before attempting to unpack, install, or operate your Emergency Power System (EPS).

CAUTION! To prevent the risk of fire or electric shock, install in a temperature and humidity controlled indoor area free of conductive contaminants. (Please see specifications for acceptable temperature and humidity range).

CAUTION! To reduce the risk of electric shock, do not remove the cover.

CAUTION! EPS must be connected to an AC power outlet with circuit breaker protection. Do not plug into an outlet that is not grounded. If you need to de-energize this equipment, turn off and unplug the unit.

CAUTION! To avoid electrical shock, turn off the unit and unplug it from the AC power source before servicing EPS, replacing the external battery or installing equipment.

CAUTION! To reduce the risk of fire, only connect the EPS to a circuit with 16 amperes (CPS1500PIE Series) maximum branch circuit over-current protection in accordance with the CE requirement.

CPS1500PIE Series include CPS1500PIE, CPS1500PIE-FR, CPS1500PIE-UK and other versions.

CAUTION! The building wiring socket outlet (shockproof socket outlet) must be easily accessible and close to the EPS.

CAUTION! Please use only VDE-tested, CE-marked mains cable (e.g. the mains cable of your equipment) to connect the EPS to the building wiring socket outlet (shockproof socket outlet).

CAUTION! Please use only VDE-tested, CE-marked power cables to connect the loads to the EPS.

CAUTION! When installing the equipment, ensure that the sum of the leakage current of the EPS and the connected equipment does not exceed 3.5mA.

CAUTION! This is permanently connected equipment and only qualified maintenance personnel may carry out installations.

CAUTION! Do not disconnect the mains cable on the EPS or the building wiring socket outlet (shockproof socket outlet) during operations since this would remove the protective ground of the EPS and of all connected loads.

CAUTION! The EPS shall be connected to the emergency switching device.

DO NOT USE FOR MEDICAL OR LIFE SUPPORT EQUIPMENT! DO NOT use in any circumstance that would affect operation or safety of any life support equipment or with any medical applications or patient care.

DO NOT USE WITH OR NEAR AQUARIUMS! To reduce the risk of fire or electric shock, do not use with or near an aquarium. Condensation from the aquarium can cause the unit to short out.

DO NOT USE WITH LASER PRINTERS! The power demands of these devices will overload and possibly damage the unit.

DO NOT INSTALL THE EPS WHERE IT WOULD BE EXPOSED TO DIRECT SUNLIGHT OR NEAR HEAT!

DO NOT BLOCK OFF VENTILATION OPENINGS IN THE EPS'S HOUSING!

DO NOT CONNECT DOMESTIC APPLIANCES SUCH AS HAIR DRYERS TO EPS OUTPUT SOCKETS.

SAFETY:

EN62040-1-1

EMI:

Conducted Emission: IEC/EN 62040-2...Category C2

Radiated Emission: IEC/EN 62040-2.....Category C2

Harmonic Current: IEC/EN61000-3-2

Voltage Fluctuations and Flicker: IEC/EN61000-3-3

EMS:

IEC/EN61000-4-2(ESD)

IEC/EN61000-4-3(RS)

IEC/EN61000-4-4(EFT)

IEC/EN61000-4-5(lightning surge)

IEC/EN61000-4-6(CS)

IEC/EN61000-4-8(Magnetic)

IEC/EN61000-2-2 (Immunity to low frequency signals)

INSTALLING YOUR EPS

UNPACKING

Inspect the EPS upon receipt. The box should contain the following:

EPS unit x 1; Installation Guide x 1; User manual x 1

AUTOMATIC VOLTAGE REGULATOR

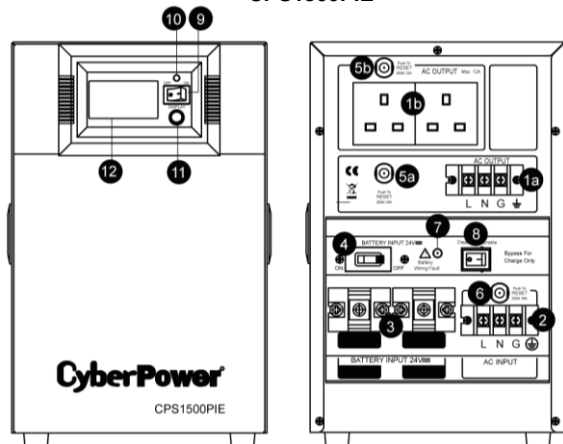
When utility power is inconsistent, the EPS would increase low voltage or decrease high voltage to safe 220 volts. The EPS automatically provides battery backup (External battery connection required) if the voltage drops below 140 volts or exceeds 300 volts.

HARDWARE INSTALLATION GUIDE

1. Your new EPS may be used immediately upon receipt. However, recharging the external battery for at least 12 hours is recommended to ensure that the battery's maximum charge capacity is achieved (Charging time varies with capacity and a 100AH or greater battery is recommended). To recharge the external battery, simply leave the unit plugged into an AC outlet. Your EPS is equipped with an auto-charge feature. When the EPS is plugged into an AC outlet, the external battery will automatically recharge. The unit will charge in both the ON and OFF positions.
2. **DO NOT plug a laser printer, paper shredder, copier, space heater, vacuum or other large electrical device into the EPS. The power demand of these devices may overload and damage the unit. DO NOT use with medical or life support equipment. DO NOT use with or near aquariums as condensation may cause the unit to short.**
3. After connecting the hard wires, plug the EPS into a 2 pole, 3 wires grounded receptacle (wall outlet). Make sure the wall branch outlet is protected by a fuse or circuit breaker and does not service equipment with large electrical demands (e.g. refrigerator, copier, etc...). The warranty prohibits the use of extension cords, outlet strips, and surge strips.
4. Press the power switch to turn the unit on. The power on indicator light will illuminate and the unit will beep once.
5. If an overload is detected, an audible alarm will sound and the unit will emit one long beep. To correct this, turn the EPS off and unplug at least one piece of equipment from the battery power supplied outlets. Wait 10 seconds. Make sure the circuit breaker is depressed and then turn the EPS on.
6. To maintain optimum battery charge performance, make the EPS plugged into an AC outlet at all times. Enabling the switch provides the bypass for charge only.

BASIC OPERATION

CPS1500PIE



DESCRIPTION

1. AC Outlets

EPS PIE Series have one general plug-in outlet (UK/Schuko/France) and one IEC (C13 x 4) outlet for connected equipment which ensures temporary uninterrupted operation of the equipment during a power failure.

Max. Output of 1a is 16A for terminal block or 10A for IEC C13; Max. Output of 1b is 12A for UK socket, 16A for Schuko/France socket.

Max. Output wattage of (1a+1b) is 1050W.

***Note:** Maximum cord length is 10 meters and the cable O.D. must be 14AWG.

2. AC Inlet

AC input terminals

***Note :** The O.D. of the distribution cables must be 14AWG or greater.

3. DC Inlet

Battery input terminals

***Note :** Maximum battery wiring cable length is 2 meters and the cable O.D. must be 6AWG or greater.

4. DC Circuit Breaker

Located on the side of the EPS, the circuit breaker serves to provide overload and fault protection.

***Note:** It is used as INPUT BATTERY SW as well.

5. AC Output Circuit Breaker

Located on the side of the EPS, the circuit breaker serves to provide overload and fault protection.

***Note:** Circuit breaker 5a provides 1a socket max 16A protection for CPS1500 Series.

***Note:** Circuit breaker 5b provides max 12A protection for UK socket or 16A for Schuko and France socket.

6. AC Input Circuit Breaker

Located on the side of the EPS, the circuit breaker serves to provide overload and fault protection.

7. Battery Input Wiring Fault LED

Battery input wiring fault LED will illuminate and make an audible alarm to indicate the wiring polarity is reversed only when the DC circuit breaker is off.

***Note:** Please make sure the DC circuit breaker is off before connecting the battery to the machine.

8. Output Selector

The unit has specific Bypass function.

Bypass: The switch provides the bypass for charge only and shutdown the unit when the utility power exceeds 300Vac or below 140Vac. In charger only mode, AVR and battery backup will not work. However, no matter under what situations, the charger would keep charging external batteries if utility power is still alive.

9. Power Switch

Used as the master on/off switch for equipment connected to the battery power supplied outlets.

10. Power ON Indicator

This LED is above the power switch. It illuminates when the utility condition is normal and the EPS outlets are providing power, free of surges and spikes.

11. Multifunction LCD Readout

High resolution and intelligent LCD display shows all the EPS information with icons and messages. For more information please check the DEFINITIONS FOR ILLUMINATED LCD INDICATORS section.

12. LCD Display Toggle / Selected Switch

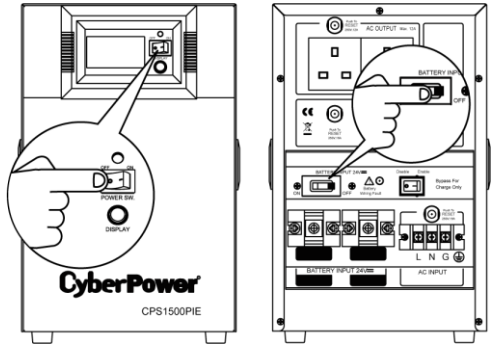
Users can monitor EPS status and set up functions by using the toggle.

INSTALLATION GUIDE

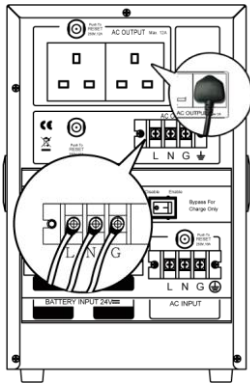
Note: The installation must be done by professionals.

Step 1

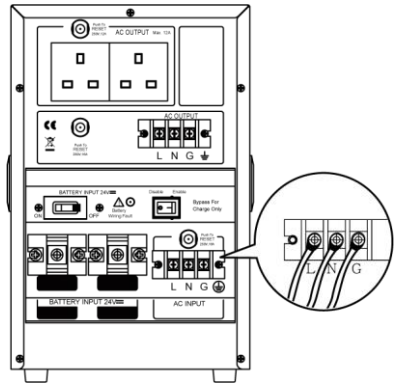
1. Remove the cover from the back of the machine.
2. Make sure the POWER SW, Output Selector, and the BATTERY SW. are turned off. (Step1)



Step 2

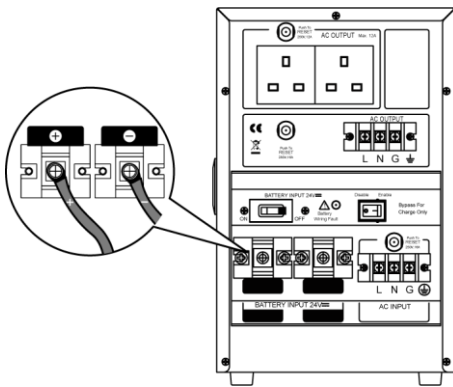


Step 3

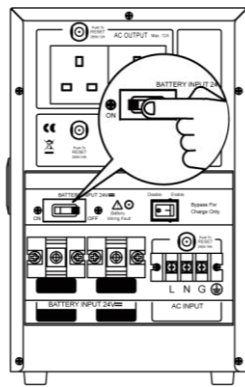


3. Connect the AC OUTPUT connections (AC plugs or terminal connections). (Step2)
4. Connect the AC power source to AC INPUT (Make sure AC power is off first). (Step3)

Step 4



Step 5



5. Connect the batteries to the BATTERY INPUT. (Step4)



WIRING FAULT LED will illuminate and make an audible alarm to indicate the wiring polarity is reversed only when the DC circuit breaker is off.

Note: Please make sure the DC circuit breaker is off before connecting the battery to the machine.

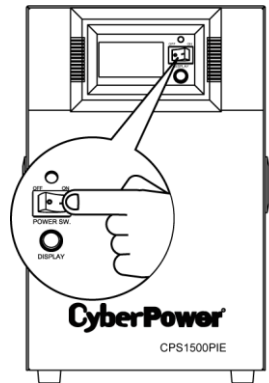
6. If the battery box or the battery connection has a switch, please turn it on first.
7. Turn on the BATTERY SW. on the back of the machine (Step 5)

8. Turn on the Power Switch and switch the Output Selector to Normal on the front panel. The Power On Indicator and the LCD Module Display will blink 4 times. Press the Display toggle (Selected Switch) once. The output voltage showing on the LCD Module Display should be 220V. This completes the start-up process. (Step 6)

9. Press and hold the Display toggle switch for 4 seconds then release. The machine will begin a self test and enter Battery Mode for 6 seconds before returning to Line Mode. Make sure the self test is ready, or see the Definitions for illuminated LCD on page 13 for a list of alarm code definitions.

10. After ensuring the machine works normally, reassemble the back cover. The installation is now complete.

Step 6

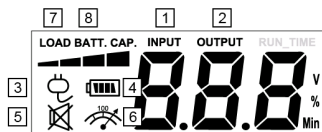


11. When the external battery needs to be maintained or replaced, remember to turn the machine off. Once off, remove the AC power source and switch off the BATTERY SW. before maintenance or replacing the batteries. When the work is complete, please start from Step 1 to re-install the machine.

DEFINITIONS FOR ILLUMINATED LCD

The LCD Display indicates a variety of EPS operational conditions. All descriptions apply when the EPS is plugged into an AC outlet and turned on or when the EPS is on battery.

1. INPUT VOLTAGE Meter: This meter measures the AC voltage that the EPS is receiving from the utility wall outlet. The EPS is designed, through the use of automatic voltage regulation, to continuously supply connected equipment with stable 220 output voltage. In the event of a complete power loss, severe brownout or over-voltage, the EPS will rely on its external battery to supply consistent 220 output voltage. The Input Voltage Meter can be used as a diagnostic tool to identify poor quality input power.



2. OUTPUT VOLTAGE Meter: This meter measures, the AC voltage that the EPS is providing to the connected equipment. It displays normal line mode, AVR mode, and battery backup mode.

3. NORMAL MODE Icon: This icon will illuminate when the EPS is working under normal conditions.

4. ON BAT (On Battery) Icon: When a severe brownout or blackout occurs, this icon illuminates and an alarm sounds (2 short beeps followed by a pause) to indicate the EPS is operating from its external batteries. During a prolonged brownout or blackout, the alarm will sound continuously. When the BATTERY CAPACITY Meter shows one 25% capacity segment remaining it indicates the EPS's external batteries are nearly out of power. You should save files and shut down your equipment immediately.

5. SILENT MODE Icon: This icon illuminates whenever the EPS is in silent mode. The buzzer will not beep during the battery mode until the battery reaches low capacity.

6. OVER LOAD Icon: This icon will illuminate and an alarm will sound to indicate the battery supplied outlets are overloaded. To clear the overload, unplug some of your equipment from the battery supplied outlets until the icon is no longer illuminated and the alarm stops.

7. LOAD CAPACITY Meter: This meter displays the approximate output load level (in 25% increments) of the EPS's battery outlets.

8. BATTERY CAPACITY Meter: This meter displays the approximate charge level (in 25% increments) of the EPS's external battery. During a blackout or severe brownout, the EPS will switch to battery power, the ON BAT icon will be illuminated and the charge level will decrease.

EPS Status Inquiry and Functions Setup

1. General Mode

- a. Press the **LCD Display Toggle** (Selected Switch) to check the status of the EPS.

Item	Unit
Input Voltage	V
Output Voltage	V
Load Capacity	%
Battery Capacity	%

- b. Press and hold the Display Toggle for 4 seconds.
- If the machine is in the Battery Mode, it enters/leaves Silent Mode.
 - If the machine is in the Line Mode, it proceeds to Self Test.
- c. If the Display Toggle remains untouched for over 30 seconds, the LCD backlight will turn off automatically.

2. Set-up Mode

- Step 1:** The machine enters Set-up Mode after the Display Toggle is pressed and held for 10 seconds. When icons 1, 2 (see page 8) all illuminate, the EPS is in the Set-up mode.

- Step 2:** By pressing the Display Toggle, users can switch setup functions:

Items	Unit
Delay Time	Min
Battery Capacity	None
Charging Current	A
Nominal Output Voltage	V
Static Frequency Tolerance	%
Slew Rate	%
Battery Shutdown Voltage	V
Mode Select	None
Firmware Version	None
Error Code	None

- a. Delay Time: The time delays for switching from Battery Mode to Line Mode. The machine will switch from Battery Mode to Line Mode within the preset delay time after the AC power transmission reaches stability.

Default 0.0 minutes

Choice 0.0, 0.5, 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0 minutes

- b. **Battery Capacity:** The function adjusts the battery capacity of the used batteries.
Default 100AH
Choice 50, 75, 100AH, others (0H)
Note: The default value would be 100AH unless the capacity of the EPS bundling battery is not 100AH. In this case, the default value changes according to the capacity of the bundling battery. For more information, please see page 11 *BATTERY CHARGING SETTING ARRANGEMENT*.
- c. **Charging Current:** The function adjusts the current for battery charging.
Default Medium level
Choice Lowest, Low, Medium, High level
Note: Check the setting of battery capacity before setting the charging current as the default value varies according to the battery capacity. For more details, please see page 11 *BATTERY CHARGING SETTING ARRANGEMENT*.
- d. **Nominal Output Voltage:** AVR Dynamic Voltage Compensation works automatically based on the system voltage settings. Please configure the correct electricity/voltage supplied in the area/country where the EPS will be used.
Default 220V
Choice 220, 230, 240V
- e. **Static Frequency Tolerance:** The settings may be adjusted to the quality of the electricity in use.
Default +/-10%
Choice 1, 2, 4, 6, 8, 10%
- f. **Slew Rate (Dynamic Frequency Tolerance):** Slew Rate indicates the tolerance of a device in accepting frequency variances. The lower Slew Rate results in less tolerance but better protection for the connected loads.
Default 4 Hz/sec
Choice 0.25, 0.5, 1, 2, 4 Hz/Sec
- g. **Battery Shutdown Voltage:** This function adjusts the EPS shutdown point according to the battery voltage.
Default 22V
Choice 19, 20, 21, 22V
Note: In order to extend the lifespan of the battery, the function is applicable only when load \geq 75%.
- h. **Mode Select:** Using the generators as ESP input is suggested to select the Robust Mode (1); using the computers as EPS output is suggested to select the Standard Mode (2).
Default Robust (1)
Choice Robust (1), Standard (2)
- i. **Firmware Version:** This function shows the version of the used firmware.
- j. **Error Code:** This function shows the latest record of error codes, if any.
Note: For more information about error codes, please see the table on page 14.

Step 3: Press and hold the toggle for 4 seconds. When the icons blink, the value of each item can be changed by slightly pressing the toggle.

Step 4: To save the value and return to general mode, press and hold the toggle for 4 seconds.

Note: If the machine is left idle for over 30 seconds during setup, it will turn off the backlight and return to general mode automatically.

Note: If user wants to return to general mode without saving changes, there are two methods:

1. Wait for the backlight to turn off
2. Press and hold the Display Toggle for 10 seconds

BATTERY CHARGING SETTING ARRANGEMENT

Please read the following instructions and cautions carefully before charging the battery.

Step 1: Press the LCD Display Toggle (Selected Switch) on the front panel for 10 seconds and let the EPS enter Set-up Mode.

Step 2: By pressing the Display Toggle, switch setup function to Battery Capacity / Charging Current.

Step 3: Press and hold the toggle for 4 seconds. When the icons blink, slightly press the toggle to choose the value of the battery capacity / charging current. Please refer to the following table for suitable setting.

	LOWEST		LOW		MEDIUM (default)		HIGH	
	current	time*	current	time	current	time	current	time
50 AH	3A	30hr			6A	11hr	8A	9hr
75 AH	4A	30hr			10A	11hr	13A	9hr
100 AH	5A	30hr	10A	15hr	14A	11hr	17A	9hr
Others (0H)**	5A (default), 10A, 15A, 20A							

* Time here indicates charging hours needed for the battery.

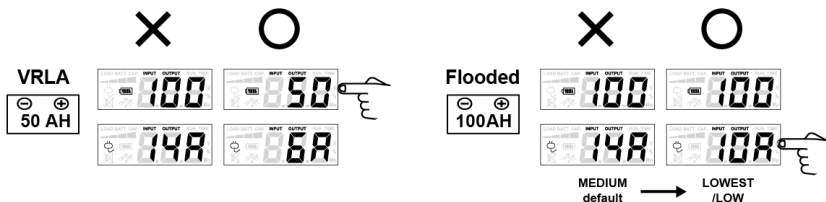
** Due to the fact that the inappropriate charging current will seriously cause the decrease of the lifespan of the battery, please DO NOT use the 0H setting without the assistance from local agent. Improper use is not incorporated in the warranty.

Step 4: Press and hold the toggle for 4 seconds to save the setting value and return to general mode.

CAUTION! The following statements related to the battery warranty are highly important. Please read and abide by them carefully.

- Do not set the inappropriate battery capacity. Incorrect charging current will seriously affect the cycle use of the battery.
- Use LOWEST/LOW current level for setting if the flooded battery is used.
- Assess if the battery can withstand the charging current before you adjust the original current level to a larger one. Unsuitable use will seriously impact on the battery lifespan.

The battery warranty becomes not applicable when one of the rules is violated. For more information, please contact the local agent.



Please set the correct battery capacity.

Please set the correct charging current, especially for FLOODED BATTERY.





CAUTION! Too large charging current, overcharge and that the battery is not fully charged for a long time all have impact on the lifespan of the battery. Please carefully assess the battery type, capacity, charging current and discharging and charging time needed. For more information, please contact the local agent.

CAUTION! BATTERY LIFESPAN will be influenced by several factors, such as the number of discharging and recharging cycles and the ambient temperature. It is recommended to follow the suggestions below to increase the lifespan of the battery.

- Setting too large charging current will decrease the battery lifespan. Please choose the suitable setting from the table on page 11 to meet your needs.
- Keep the battery fully charged, even when it is not in use.
- Do not expose the battery to high temperature environment, such as direct sunlight. It will seriously decrease the efficiency of the battery.
- The lifespan of the battery gets a drop-off when the ambient temperature is getting higher above 77°F/25°C, which is the optimum temperature for the battery. Keep the ambient temperature at the optimum temperature.
- Do not deploy batteries with different manufacturing batch (different production date). Mix usage of batteries with different remaining power (voltage) will cause unbalanced charge voltage and will shorten the lifespan of batteries.
- The voltage differences of one set of batteries shall be within 0.3V. If not, change the unsuitable batteries in order not to cause unbalanced charge. It will shorten the lifespan of batteries.

FAULT WARNING DISPLAY AND ALARM

1. The following table shows each corresponding warning message on the LCD display and the alarm reacts during the machine shutdown:

LCD Warning Display	Alarm	Condition	Solution
	Long Beep	Overload	Check total load to confirm the rating of EPS.
 (Flashing)	Rapid Beep (30s)	Battery missing in Line Mode	Turn the EPS off. Check battery wiring and the presence of the battery.
NO IMAGE	Rapid Beep	Overheat (Over 70°C/158°F)	Check fans function and air vent clearances.
LOAD BATT. CAP. 	Rapid Beep	Low Battery. Battery Capacity shows 0% in General Mode.	Recharge the battery.
LOAD BATT. CAP. 	Rapid Beep	Overcharge in Line Mode	Inform service agents.

After warning, all above except "Battery missing in Line Mode" will all shut down. For "Battery missing in Line Mode", the On Battery icon will keep flashing.

2. The following table shows the information about the error codes on the LCD display AFTER the machine shutdown. The LCD will show the message till the EPS runs out of battery.

Error Type	Error Code		Possible cause
Line Mode Error	E0	AVR Fail	AVR broke down
	E1	Battery Overcharge	Charger broke down
Battery Mode Error	E10	Output Overvoltage	Output voltage detector broke down
	E11	Battery Overvoltage	Unexpected battery module
System Error	E20	Battery Mode No Output Voltage	EPS/connected devices short circuit
			Output voltage detector broke down
			Inverter broke down
	E21	Utility Mode No Output Voltage	EPS/connected devices short circuit
			Output voltage detector broke down
			Input relay broke down
	E22	Output Overload	Too many connected devices
			Output voltage detector broke down
	E23	Transformer Overheat	Over temperature of Transformer
	E24	Inverter Overheat	Over temperature of Heat Sink
E25*	Turned Off By EPO	Shutdown by EPO	
E26	AC Input Over Current	Low AC input voltage	
E27	Abnormal Input Current Feedback	Input current sensor broke down	
E28	Abnormal Output Current Feedback	Output current sensor broke down	

*It is only for the products equipped with EPO.



After the EPS shutdown, the Fault Mode icon will also illuminate on the LCD display together with the error code, indicating there is a problem with the machine. Please contact CyberPower Systems or local agent for further help and support.

REPLACING THE BATTERY

CAUTION! Read and follow the IMPORTANT SAFETY INSTRUCTIONS before servicing the battery. Battery service should only be done by qualified professionals.

CAUTION! Use only the specified type and number of external batteries. Please see the technical specifications for replacement batteries. Mix usage of different brands, capacity and type of battery will cause damage to batteries because the suitable charging current of each battery may be different.

CAUTION! Deploying batteries with different manufacturing batch (different production date) is not recommended. Mix usage of batteries with different remaining power (voltage) will cause unbalanced charge voltage and will shorten the lifespan of batteries.

CAUTION! The voltage differences of one set of batteries shall be within 0.3V. If not, change the unsuitable batteries in order not to cause unbalanced charge. It will shorten the lifespan of batteries.

CAUTION! The battery may present a risk of electrical shock. Do not dispose of battery in a fire as it may explode. Follow all local ordinances regarding proper disposal of batteries. Lead-acid batteries should be recycled.

CAUTION! Do not open or mutilate the batteries. Released electrolyte is harmful to skin and eyes and may be toxic.

CAUTION! The external battery cabinet must be provided with 80V / 100A for model CPS1500PIE. [CPS1500PIE Series include CPS1500PIE, CPS1500PIE-FR, CPS1500PIE-UK and other versions.](#)

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

1. Remove watches, rings, or other metal objects.
2. Use tools with insulated handles.
3. Wear rubber gloves and boots.
4. Do not lay tools or metal parts on top of batteries.
5. Disconnect charging source prior to connecting or disconnecting battery terminals.
6. Determine if battery is inadvertently grounded. If inadvertently grounded, remove source from 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 (applicable to equipment and remote battery supplies not having a grounded supply circuit).

TROUBLESHOOTING

Problem	Possible Cause	Solution
Outlet does not provide power to equipment.	Circuit breaker has tripped due to an overload.	First, turn the EPS off and unplug at least one piece of equipment. Wait 10 seconds, reset the circuit breaker by pressing the button, and then turn the EPS on.
	Batteries are discharged.	Recharge the unit for at least 4 hours.
	Unit has been damaged by a surge or spike.	Contact CyberPower Systems or local agent about replacement batteries.
The EPS cannot be turned on.	The on/off switch is designed to prevent the damage that rapidly turns it off and on.	Turn the EPS off. Wait 10 seconds and then turn the EPS on.
	The unit is not connected to an AC outlet.	The unit must be connected to a 220/230/240V outlet.
	The battery is worn out.	Contact CyberPower Systems or local agent about replacement batteries.
	Mechanical problem.	Contact CyberPower Systems or local agent via phone or visit our website.
	Input and output wiring error	Check the input/output connection.
	The battery voltage is too high during cold start.	Check the reason for battery over-voltage.

TECHNICAL SPECIFICATIONS

Model	CPS1500PIE
Capacity (VA)	1500VA
Capacity (Watts)	1050W
Operation Technology	AVR (Double Boost & Single Buck)
AC Input	
Input Voltage Range	140Vac – 300Vac
Input Frequency Range	50/60 Hz +/- 5 Hz (auto sensing)
AC Output	
Phase	Single Phase
Output Voltage	Pure Sine Wave at 220Vac +/- 10%
Nominal Output Voltage	Configurable for 220 / 230 / 240Vac
Battery Output Frequency	50/60 Hz +/- 1%
Overload Protection	On Utility: Circuit Breaker On Battery: Internal Current Limiter
Transfer Time	< 10 ms (Typical)
Output Receptacles	UK(Schuko/France) Type*2 + Terminal Block
External Battery	
Voltage x Recommended Rating X Quantity	12V x 100AH X 2
External Battery Voltage	24V
External Battery Type	Sealed Maintenance Free Lead Acid Battery
External Battery Protection	DC Circuit Breaker
Hot Swappable	Yes
Extended Runtime	Yes
Status Indication	
Indicators	Power On, LCD Display
Audible Alarms	On Battery, Low Battery, Overload, Overheat, Overcharge
Environmental	
Temperature	32°F to 104°F (0°C to 40°C)
Relative Humidity	0 to 95% Non-Condensing
Physical	
Dimensions (LxWxH) (mm)	261 x 206 x 325
Weight (Kg)	18.6 Kg
Safety	
Certificated	CE/SONCAP



For more information, contact us at:

CyberPower Systems, Inc.

Website: www.cpsww.com

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