Thank you for selecting this CyberPower UPS product. This UPS is designed to provide uninterrupted power to your equipment during a utility power failure. This will allow your equipment to complete its operation and avoid the loss of data. Please take a few minutes to register your product by visiting: CyberPowerSystems.com/register. Registering your product will give you full warranty coverage and entitles you to free technical support.


definitions for illuminated LCD indicators (CP825AVRLCD-G/CP685AVRLCD-G)

1. Power Switch: Used as the master on/off switch for equipment connected to the battery power supplied outlets. To turn the UPS Off, press the button for approximately 2 seconds - you will hear a beep (tone on/off) - and release after a short beep. To turn the UPS On, press the button for approximately 5 seconds - you will hear a double beep (On/Off tone) and release after a short beep. If the UPS is connected to an AC outlet or battery mode and battery charging indicator is green, it will take 4 seconds for the setting to be confirmed. After the setting has been confirmed the LCD screen will illuminate green and the button will go back to the default status. If the UPS is in battery mode and grey or red, it will take 30 seconds for the setting to be confirmed. After the setting has been confirmed the LCD screen will illuminate green and the button will go back to the default status.
2. Battery LED indicator: This LED is illuminated when the utility power is normal and the UPS outlets are providing power, free of surges and spikes.
3. Mode LED indicator: (For CP825AVRLCD-G/CP685AVRLCD-G): Press the Mode Switch for approximately 3 seconds to enter setup mode to view options: Utility/High Low Voltage range, sensitivity level, LCD display brightness, screen contrast, alarm, and battery save time. After 4 seconds the UPS will return to normal operation. If the UPS is turned off, the UPS will automatically resume battery power to your equipment with a low battery alarm. If the UPS is turned on, the screen will illuminate green and the alarm will stop. If the UPS is turned on, the screen will illuminate green and the alarm will stop.
4. Fault LED indicator: This LED is illuminated if there is a problem with the UPS.
5. Mute Button (For CP825AVR/CP685AVR-G): Press the button for 2 seconds to enable the audible alert (beeps once) or disable the audible alert (beeps twice), during power outages with maintenance free batteries. The CP825AVRLCD-G/CP685AVRLCD-G/CP800AVR-G features 1030 Joules of surge protection. The unit provides long lasting battery backup from utility power that is not always consistent. The CP825AVRLCD-G/CP685AVRLCD-G/CP800AVR/CP685AVR-G offers AVR, which automatically increases low utility power to a consistent and safe 110/120 volts.
6. LCD module display (For CP825AVRLCD-G/CP685AVRLCD-G): LCD display shows all the UPS operating and fault conditions. For more information please refer to “Definitions for illuminated LCD Indicators” section.
7. Battery and Surge Protected Outlets: The unit has four battery and surge protected outlets to ensure temporary unattended operation of your equipment during a power failure. (DO NOT plug a laser printer, paper shredder, space heater, vacuum cleaner, sump pump, or other large electrical device into the “Battery and Surge Protected Outlets.” The power demands of these devices will overload the UPS and cause the circuit breaker to trip. Do not plug a laser printer, paper shredder, space heater, vacuum cleaner, sump pump, or other large electrical device into the “Battery and Surge Protected Outlets.”)
8. Full-Time Surge Protection Outlets: The unit has four surge protection outlets. To turn the UPS Off, press the button for approximately 2 seconds - you will hear a constant tone (1 second) - and release after two short beeps. To turn the UPS On, press the button for approximately 5 seconds - you will hear a double beep (On/Off tone) and release after a short beep. If the UPS is turned on, the screen will illuminate green and the button will go back to the default status. If the UPS is turned off, the UPS will automatically resume battery power to your equipment with a low battery alarm. If the UPS is turned on, the screen will illuminate green and the alarm will stop. If the UPS is turned on, the screen will illuminate green and the alarm will stop.
9. USB Port: The USB port allows connection and communication between the USB port on the UPS and your computer.
10. Communication Protection Ports (For CP825AVRLCD-G): Communication protection ports, bidirectional protection to protect a 10/100/1000 Ethernet port.
11. Serial Port: Serial Port allow for bi-directional communication among the UPS and the computer. This serial port can control the computer and the UPS. At the same time, the computer can monitor the UPS and all its various programmable parameters.
12. Battery Breaker & reset: Located on the side of the UPS, the circuit breaker provides overload and fault protection.
13. Overload indicator: The ground screw is used for any equipment that needs a chassis ground connection.
14. Outlet described for AC Adapters: The unit has four wide-splayed outlets. AC power adapters are usually designed to fit into these outlets without overlapping or blocking adjacent outlets.

REPLACING THE BATTERY
Replacement of batteries located in an OPERATOR ACCESS AREA.

1. If the UPS will be shipped, remove the following battery: CyberPower / RB290 for CP825AVRLCD-G/CP685AVR-G, CyberPower / RB297 for CP685AVRLCD-G/CP685AVR-G.
2. CAUTION! Energy Hazard: Before opening the battery cover, remove conductive jewelry such as chains, wrist watches, and rings. High energy through conductive material could cause severe burns.
3. CAUTION: Do not dispose of batteries in a fire. The batteries may explode.
4. Do not open or mutilate batteries. Released material is harmful to the skin and eyes.
5. It may be toxic.
6. Do not attempt to replace the batteries.
7. Battery can percolate, which can be easily punctured, and short high circuit current. The following precautions should be observed when working on batteries:
   a. Remove watches, rings, or metal objects.
   b. Use tools with insulated handles.
   CAUTION: risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to local regulations.

TO REPLACE THE BATTERY
1. Turn off and unplug all connected equipment.
2. Unplug it from the AC power source.
3. Plug into the UPS the AC power cord.
4. Remove the 1 retaining screw.
5. Slide the battery compartment cover completely off of the unit.
6. Follow the instructions that came with your new battery.
7. Disconnect the battery cables from the battery.
8. Install the replacement battery into the battery compartment.
9. Replace the battery cable from the battery to the UPS.
10. Put the battery back into the compartment.
11. Connect the UPS and the battery cable back on.
12. Replace the battery cover and tighten the retaining screw.
13. Charge the unit for 8 hours to fully charge the battery.

REPLACEMENT BATTERIES: are compatible with the CyberPower UPS system and must be of the same type. Most retailers that sell lead-acid batteries collect used batteries for recycling, as required by local regulations. Batteries that sell lead-acid batteries collect used batteries for recycling, as required by local regulations.

DEFINITIONS FOR LED INDICATORS & AUDIBLE ALARMS

DEFINITIONS FOR ILLUMINATED LCD INDICATORS (CP825AVRLCD-G/CP825AVRLCD-G)

- POWER LED indicator: This LED will light whenever the UPS is connected to a live AC input and turned on. It will also light when the UPS is turned on and the AC input is disconnected. While in storage, recharge the battery every three months to ensure optimum battery life.
- ALARM LED indicator: This LED will light whenever the UPS is in an alarm condition. In all alarm conditions, the alarm will emit a warning tone. The alarm will stop when the condition has been corrected or the alarm is turned off. INCOMPLETE CHARGE: the battery is not fully charged. LOW BATTERY: the battery is nearly out of power. SHUTDOWN: the battery is being switched off and will not supply power. OVERLOAD: the battery is being overloaded and will not supply power.
- Status LED indicator: This display the run time estimate of the UPS’s battery power. EBDP: Early Battery Drain Protection.
- Normal: This icon appears when the UPS is working nominate.
- Battery Mode: This icon appears when the UPS is being charged.
- Battery Power: This icon appears when the UPS is running on battery power.
- Battery Fault: This icon appears when the UPS is operating with a fault.

POWER FAULT ALARM

- Condition:
  - Normal
  - Battery Mode or AC/Utility Power Mode Overload Fault: The UPS condition is overload and battery backup capacity is reduced. Please unplug at least one piece of equipment from battery outlets and turn on the UPS again.
  - Battery Power Short Fault: Please unplug at least one piece of equipment from battery outlets and turn on the UPS again. If the fault still exists, please contact CyberPower Systems for support.
  - Battery Power: The UPS is providing battery power. Rapid beeping indicates the unit will run out of power soon.

- Alarm:
  - Off
  - On

- Off
  - Constant tone

- Flash twice every 5 seconds
  - Constant tone

- Flash 3 times every 5 seconds
  - Constant tone

- Flash 4 times every 5 seconds
  - Constant tone

- Flash 5 times every 5 seconds
  - Constant tone

- Flash 6 times every 5 seconds
  - Constant tone

- Flash 7 times every 5 seconds
  - Constant tone

- Flash 8 times every 5 seconds
  - Constant tone

- Flash every 5 seconds
  - Constant tone

- Continuous on
  - Constant tone

- Blinking every 0.5 second
  - Constant tone

- Blinking every 1 second
  - Constant tone

- Blinking every 1.5 seconds
  - Constant tone

- Blinking every 2 seconds
  - Constant tone

- Blinking every 2.5 seconds
  - Constant tone

- Blinking every 3 seconds
  - Constant tone

- Blinking every 3.5 seconds
  - Constant tone

- Blinking every 4 seconds
  - Constant tone

- Blinking every 4.5 seconds
  - Constant tone

- Blinking every 5 seconds
  - Constant tone

- Blinking every 5.5 seconds
  - Constant tone

- Blinking every 6 seconds
  - Constant tone

- Blinking every 6.5 seconds
  - Constant tone

- Blinking every 7 seconds
  - Constant tone

- Blinking every 7.5 seconds
  - Constant tone

- Blinking every 8 seconds
  - Constant tone

- Blinking every 8.5 seconds
  - Constant tone

- Blinking every 9 seconds
  - Constant tone

- Blinking every 9.5 seconds
  - Constant tone

- Blinking every 10 seconds
  - Constant tone

- Blinking every 10.5 seconds
  - Constant tone

- Blinking every 11 seconds
  - Constant tone

- Blinking every 11.5 seconds
  - Constant tone

- Blinking every 12 seconds
  - Constant tone

- Blinking every 12.5 seconds
  - Constant tone

- Blinking every 13 seconds
  - Constant tone

- Blinking every 13.5 seconds
  - Constant tone

- Blinking every 14 seconds
  - Constant tone

- Blinking every 14.5 seconds
  - Constant tone

- Blinking every 15 seconds
  - Constant tone

- Blinking every 15.5 seconds
  - Constant tone

- Blinking every 16 seconds
  - Constant tone

- Blinking every 16.5 seconds
  - Constant tone

- Blinking every 17 seconds
  - Constant tone

- Blinking every 17.5 seconds
  - Constant tone

- Blinking every 18 seconds
  - Constant tone

- Blinking every 18.5 seconds
  - Constant tone

- Blinking every 19 seconds
  - Constant tone

- Blinking every 19.5 seconds
  - Constant tone

- Blinking every 20 seconds
  - Constant tone

- Blinking every 20.5 seconds
  - Constant tone

- Blinking every 21 seconds
  - Constant tone
FUNCTION SETUP GUIDE – SENSITIVITY SETUP

*In line mode, the AC input voltage may not stabilize at all times. To prevent the connected equipment from damage caused by the unexpected voltage fluctuations, please adjust the sensitivity of the unit by visiting: www.cyberpowersystems.com and download the LCD setup guide. (CP825AVRLCD-G; CP685AVRLCD-G; CP800AVRA-U; CP685AVRA-U). Please refer to the steps as follows*:

1. Please make sure that the UPS is NOT connected to the supporting AC source.
2. To enter the Sensitivity Setup mode, press the MUTE button for 6 seconds until all indicators flash rapidly.
3. The unit will show the current SENSITIVITY setting, as shown in the following table.
4. To select LDW Sensitivity setting, press the power button until red indicators flash.
5. To select Medium (Default) sensitivity setting, press the power button until green indicators flash.
6. To select High Sensitivity setting, press the power button until green and red indicators flash.
7. To set up a lower sensitivity, hold down the Mute button until the first red indicator flashes.
8. To set up a higher sensitivity, there is no action within 7 seconds, the unit will exit setup mode, and no setting is done.

Indicators
Sensitivity
Description

1 (Red)
LOW
If the connected equipment can tolerate more power events (example: unstable power often associated with stormy weather), select Low Sensitivity setting to go to Battery Mode more often.

2 (Green)
Medium (Default)
The UPS will go to Battery Mode if the power is unstable.

3 (Green, Red)
High
If the connected equipment is more sensitive to power events, select High Sensitivity and the UPS will go to Battery Mode more often.

TROUBLESHOOTING

Circuit breaker button is projecting from the back of the unit.

1. Turn the UPS off and unplug at least one piece of equipment. Wait 10 seconds, reset the circuit breaker by depressing the button, and then turn the UPS on.

Circuit breaker has tripped due to an overload.

1. Turn the UPS off and unplug at least one piece of equipment. Wait 10 seconds, reset the circuit breaker by depressing the button, and then turn the UPS on.

Battery not fully charged.

1. Wait 10 seconds by leaving the UPS unplugged, then press and hold the Power button for 10 seconds. Please contact CyberPower Systems about possible indications of At-Supply Failure.

UPS will not turn on.

1. Turn the UPS off. Wait 10 seconds and then turn the UPS on.

The UPS does not perform expected running time.

1. The UPS must be connected to an AC power source (120 V, 60 Hz outlet).

PowerPanel* Personal Edition is inactive (all icons are gray).

1. Connect the USB cable to the UPS unit and an open USB port on the back of the computer.

The USB power ports are not providing power to the connected devices.

1. The USB power ports have Over Current Protection to prevent damage. When the total current of all connected devices reaches 2.1A, the USB power ports will stop providing power to the connected device.

Additional troubleshooting information can be found at: CyberPowerSystems.com/support

TECHNICAL SPECIFICATIONS

Runtimes based on testing fully-charged, new batteries at normal operating conditions. Runtimes are approximations and vary by battery type and the connected equipment. The USB ports are not interchangeable with the PowerPanel* Personal Edition, and the connected equipment. Additional information can be found at: CyberPowerSystems.com/support

<table>
<thead>
<tr>
<th>SERIES</th>
<th>CP825AVRLCD-G</th>
<th>CP685AVRLCD-G</th>
<th>CP800AVRA-U</th>
<th>CP685AVRA-U</th>
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</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>825 VA/450 W</td>
<td>685 VA/390 W</td>
<td>800 VA/450 W</td>
<td>685 VA/390 W</td>
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<tr>
<td>Input Voltage</td>
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<td></td>
<td></td>
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<tr>
<td>Normal Input Voltage</td>
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<tr>
<td>Input Frequency</td>
<td>60 Hz ± 3 Hz</td>
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<tr>
<td>On-Battery Voltage</td>
<td>120V ± 5%</td>
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<td></td>
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</tr>
<tr>
<td>On-Battery Frequency</td>
<td>60 Hz/+-1%</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Max. Load</td>
<td>12 Amps</td>
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<tr>
<td>Max. Load for Full-Time</td>
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<tr>
<td>Surge Protection outlets</td>
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<td></td>
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<tr>
<td>Battery Protection</td>
<td>110 Joules</td>
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<tr>
<td>Temperature</td>
<td>0 to 90~ non-condensing</td>
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<tr>
<td>Surge Protection</td>
<td>110 Joules</td>
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</tr>
<tr>
<td>Operating Humidity</td>
<td>10% to 90%</td>
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<tr>
<td>Standard Load</td>
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<tr>
<td>Total Load</td>
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<tr>
<td>Surge Protection outlets</td>
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<td>Safety Approvals</td>
<td>UL1778(UPS), UL1077, FCC/DoD Class B</td>
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SYSTEM FUNCTION DIAGRAM

INPUT EMI FILTER | CHARGER AC/DC | INVERTER | OUTPUT
NORMAL MODE | BATTERY MODE

CYBERPOWER GREENPOWER UPS® TECHNOLOGY

ADVANCED ENERGY-SAVING PATENTED BATTERY TECHNOLOGY
CyberPower GreenPower UPS® technology reduces UPS energy costs by up to 75% compared to conventional UPS models. Even when utility power is normal, conventional UPS models run continuously, even while the load is almost completely off. By contrast, under normal conditions the advanced circuitry of a GreenPower UPS® bypasses the transformer. As a result, the power efficiency is significantly increased while decreasing energy costs. When an abnormal power condition occurs, the GreenPower UPS® automatically runs power through its transformer to regulate voltage and provide "safe" power. Since utility power is normal over 88% of the time, the GreenPower UPS® operates primarily in its efficient bypass mode.

CyberPower encourages environmentally sound methods for disposal and recycling of its UPS products. Please dispose of or recycle your CyberPower UPS products in accordance with your local regulations. This device is manufactured using environmentally-safe procedures in compliance with the restriction of Hazardous Substances direct.