



UPS SYSTEMS PORTFOLIO

UC0014EU-00



THE CYBERPOWER STORY

Founded in 1997, CyberPower has followed a path to success through engineering excellence and quality standards in power protection and computer accessories. At our advanced technology manufacturing facilities, we build a comprehensive line of power protection products, including Uninterruptible Power Supplies (UPS), Power Distribution Units (PDUs), Power Inverters, Surge Protectors, Mobile Chargers, power management software, and computer peripheral accessories. With the target at global branding, what we provide is not only award-winning products, but reliable power protection for the sense of security.

No matter who you are, an IT professional working in a corporate data center, owner of small medium business, or tech-savvy customer using electronic devices at home, CyberPower has the wide range of power solutions to safeguard your critical equipment and valued data.

Global Distributions

CyberPower products are available through authorized distributors and sold by value-added resellers, system integrators, well-known e-tailers and select retail channels worldwide. Our global presence is accomplished through offices and distribution centers located in Americas (Canada, Mexico, and the United States), Europe (France, Germany, Russia, and the Netherlands), Asia (Japan, Taiwan, China, India, Vietnam, Thailand, etc.), Australia and New Zealand, Africa, and beyond.



Our Core Values



In-house Laboratory for Certified Testing

Been audited by 3rd party certificate labs including UL, TUV, SGS, Intertek and CSA, CyberPower's in-house laboratory devotes continuous efforts in enhancing its testing capabilities and facilities for higher standard of product verification and testing. Through the certified capabilities, we are able to perform in-house safety tests, certificates of EMI, Energy Star and related pre-tests, securing a timely development process as well as the compliance with worldwide legal standards.



Comprehensive Power Solutions

As a professional power solution provider, CyberPower designs and manufactures a wide range of innovative power products, including Mobile Inverter, Surge Protector, PDU & Power Management, Mobile Charger, and PV Inverter. With the exceptional R&D capabilities and completed product lines in power solution, these all engineered to further enhance our abilities in designing quality UPS products.



Fast Response Ability

With the market changing at blinks, how to promptly respond to various requests has been the top priority for businesses nowadays. Thanks to our efficient supply chain management and systematical integration capability, we are able to demonstrate fast response ability to the demanding markets hence winning the trust from different partners.



GreenPower UPS™ Technology

In response to the growing demand for Green IT products, CyberPower has developed the patented GreenPower UPS™ Energy-Saving Technology to improve UPS operating efficiency and eliminate energy consumptions. As a result, consumers can enjoy significant energy cost savings over conventional UPS systems.

REDUCE ENERGY COST USING ENERGY-SAVING TECHNOLOGY

The GreenPower UPS™ Technology represents multiple advanced energy-saving designs that improve the operating efficiency and eliminate waste energy consumptions. Featuring the advanced high-frequency design and the patented bypass circuit design, users can enjoy significant energy savings with the adoption of GreenPower UPS™ Technology.

The Greenpower UPS™ Design

High-Frequency Design

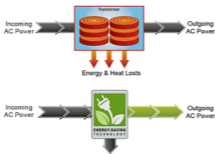
The high-frequency design includes a compact energy-efficient inverter and charger with features as below:

- **High Efficiency Charger:** Increasing charging efficiency and reducing energy loss during battery charging process in AC Mode.
- **High Frequency Inverter:** Increasing conversion efficiency and reducing energy loss when inverter is converting DC to AC power during Battery Mode.

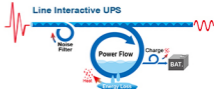
	High Frequency UPS	Conventional UPS
Physical	Smaller in size / Lighter	Larger in size / Heavier
Efficiency	Better efficiency	Less efficiency
Stability	Advanced circuit design for good stability	Better stability
Energy saving	Yes, less energy loss during charging and/or conversion	No
AVR	No	Varies from models
Operating environment	Suit for Stable utility supply	Unstable utility supply

Bypass Circuit Design

While conventional UPS systems pass power through transformer to provide normal output voltage to protect devices, the patented GreenPower UPS™ circuitry bypasses the transformer during normal utility power operation which significantly increases the power efficiency of the UPS. As utility power is normal over 88% of the time, GreenPower UPS™ Technology operates primarily in its cost-reducing bypass mode thus reduce energy cost by up to 75% compared to conventional UPS models.



Traditional online double-conversion and line-interactive UPS designs can have efficiencies as low as 85% under full load. The energy lost by these UPS designs during normal utility power operation is significant.



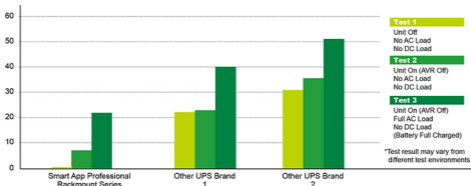
GreenPower UPS™ Technology increases the efficiency of your UPS by saving energy during normal utility power operation.



Our Green Fact

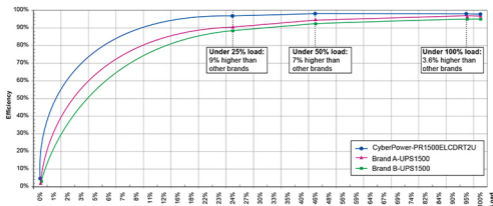
Power Consumption: GreenPower UPS™ Technology vs. Other UPS Brands

Power Consumption



Power Efficiency

Our product can outperform other brands under any conditions



1. UPSs work in line mode with resistive load.
2. Batteries are fully charged.

*Comparison between CyberPower Smart App Professional Rackmount Series and other UPS brands.

Continuous Devotions in Green Management

As recognizing the commitment in innovation, excellence, and efficiency extends throughout the organization, CyberPower has adopted Green practices and management certifications throughout the business, including: Compliance with Restriction on Hazardous Substances (RoHS) and Waste Electrical and Electronic Equipment (WEEE) protocol, certification in ISO 14001 Environmental Management Systems and IECQ QC 080000 HSPM Hazardous Substance Process Management Standards, qualifications of ENERGY STAR®, patented energy-saving GreenPower UPS™ Technology, and ongoing "Greening" of all packaging practices and materials to ensure the maximum contribution to the environment.



ISO14001



IECQ QC080000



CHOOSING THE RIGHT UPS FOR YOUR EQUIPMENT

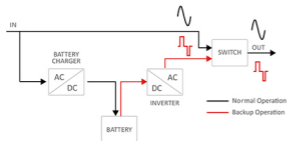
Uninterruptible Power Supply (UPS) provides battery backup power and extra runtime to connected devices when the input power source, usually utility power, fails or drops to an unexpected voltage level. For small UPS systems, the on-battery runtime is relatively short, usually just few minutes, yet sufficient for operators to save files and power down computers in an orderly manner; for large UPS systems, most industry-level UPSs accept optional external battery packs for additional runtime up to several hours.

At CyberPower, we offer users from Home Office to IT Professionals a wide range selection of UPS solutions, all designed to protect sensitive equipment and valued data from the harm of different power problems. To better assist you in choosing the right power solution for your equipment, different topologies and output wave forms have been addressed below for your better understanding.

Topologies

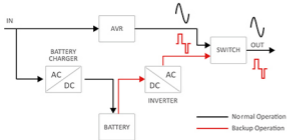
The Essential Protection — Offline/Standby

The **Standby UPS**, also known as **Offline UPS** to be distinguished from **Online UPS**, is the simplest and least expensive UPS type. Primary power source is utility power and battery is the second. Normally, the battery remains charging by utility power and the inverter only starts when AC power fails, hence known as "Standby".



Professional & Advanced Protection — Line-Interactive

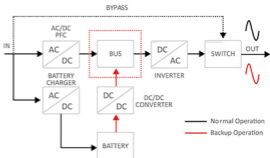
The **Line-Interactive UPS** is the most common design used for SMEs, Corporate Servers and Industrial Equipment. In this design, the AC power is still the primary power source while the battery power is the second. However, the most difference from **Standby UPS** is that the inverter/converter unit stays connected to the output for powering equipment. When the power fails, this design demonstrates a faster response time comparing to **Standby UPS**, while providing additional filtering of switching transients and spikes. **Automatic Voltage Regulation** is another important feature comes with most **Line-Interactive UPS** as it can regulate high and low voltages and bring the power to a nominal level. This allows the UPS to maintain safe power levels without resorting to battery power which significantly reduces the premature battery failure caused by frequent battery usage. It also reduces the chances of data loss, memory freezes, and system crashes.



Seamless Connection & Ultimate Protection — Online (Double Conversion Topology)

In the **Online (Double Conversion) UPS**, failure of input AC will not cause the activation of transfer switch, as the primary power source is NOT the utility power but the backup source instead. During normal operation, the UPS is running off the battery and using its inverter for loads while the battery charger running by line power, hence the name of **Online (Double Conversion) UPS**. In the event of power failure, only the battery charger would fail and the inverter will keep providing loads from battery. As no transfer time is needed when the power goes out, equipment powered by **Online UPS** can remain operating without interruption, so that makes it perfect for those which are zero tolerance of power outages!

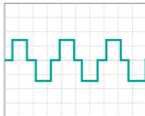
Also, with the equipment running off the battery most of the time, any noises or unpleasant surprises from the wall can be isolated from the output loads and affect only the battery charger. Therefore, the **Online UPS** can provide continuous, consistent and clean pure sine wave power to mission-critical equipment, regardless of the incoming power.



Output Waveform

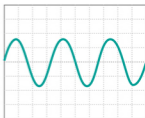
Simulated/Stepped Sine Wave

The Simulated Sine Wave can be seen as a satisfactory compromise between cost and power quality. Though not as ideal as sine wave AC power, this waveform is applicable for some consumer electronics for favorable operation. Simulated Sine Wave system produces decent battery power with reasonable cost hence make it widely adopted in entry- to mid-level UPS products.



Pure Sine Wave

As the highest level of line clarity, Pure Sine Wave is the most ideal waveform for mission-critical equipment. While Simulated Sine Wave output produces sine wave that is "stepped" or modified, Pure Sine Wave output produces a true sine wave that is similar to normal AC wall power that ensures the continuous optimal operation. UPS with Pure Sine Wave are designed for electronics utilizing Active PFC power supplies or other devices requiring pure sine wave for proper function.



Features

Below is a list of innovative features that can be found on CyberPower UPS products. Some features may only be available on select products. For detailed features and specifications of each UPS model, please refer to our website at www.CPSwww.com.

- Automatic Voltage Regulation (AVR)
- Critical Load Outlets
- Emergency Power Off Port (EPO)
- GreenPower UPS™ Technology
- Multifunction LCD Display Panel
- Convertible Rack/Tower Configuration
- Data and Phone Line Protection
- Extended Runtime
- Hot-Swappable, Front-Load Batteries
- PowerPanel® Management Software

Applications

The common applications of UPS systems are:



PCs / WORKSTATIONS
Monitors, PCs or external peripherals



AUDIO / VIDEO SYSTEMS
Stereos, TV, DVD players



NETWORK DEVICES
Hubs, routers, switches, and Wireless AP



OFFICE DEVICES
Fax machines, scanners, and projectors



EMERGENCY SYSTEMS
Emergency lightings, alarm systems, safety systems



DATA STORAGE ARRAYS
RAID systems and tape drivers



TELECOM DEVICES
Home systems, monitoring systems and POS



DVRs / SURVEILLANCE SYSTEMS
Safety and surveillance systems



SERVERS
Firewalls, data centers or server rooms



INDUSTRIAL EQUIPMENT
Central control systems, factories





PowerPanel® Management Software

PowerPanel® Management Software is an integral component of battery backup and data protection solutions, packaged with most CyberPower UPS products.

The intuitive dashboard interface is extremely easy to navigate for first-time users and powerful enough for administrators and system integrators. In the event of a power loss, PowerPanel automatically saves files and safely shuts down the computer in an orderly manner.

POWERPANEL® PERSONAL EDITION



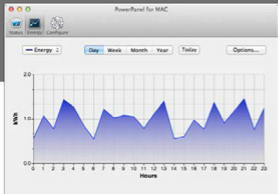
POWERPANEL® PERSONAL EDITION

PowerPanel® Personal Edition is designed for small office, featuring a heads-up graphical interface. These friendly dashboard interfaces of PowerPanel® Personal Edition software make it easy to control and monitor the UPS system with a USB or serial port. In the event of power loss, the software automatically saves files, shuts down computers, and enters OS hibernation in a safe, intelligent, and orderly manner. It combines graphical and statistical data in a compact, easy-to-install package, and fully compatible with Windows 8, 7, Vista, XP, Window Server 2012, 2008 and 2003.

Software Features

- User-friendly Dashboard Interface
- Load/Current Draw and Runtime Status
- System Tray Notifications
- Automatic File-saving, Equipment Shutdown, and OS Hibernation
- Scheduled-shutdown and Restart

The Second-to-None in UPS Technology



POWERPANEL® for MAC & MAC ENERGY SAVER



POWERPANEL® for MAC & MAC ENERGY SAVER

PowerPanel® for Mac is now available to provide Mac users with statistics and status information of connected CyberPower UPS via USB connection. During a power event, users can safely shut down their Mac via either PowerPanel software or Mac Energy Saver. PowerPanel for Mac is compatible with Mac OS X 10.4.1+.

* For more information, please visit www.CPSwww.com under "Software".

POWERPANEL® for LINUX

PowerPanel® for Linux allows control and monitoring of UPS attached to a Linux based computer for protection of computer system, components, peripherals, as well as the data. In the event of a power loss, PowerPanel will safely shut down computers in a safe and orderly manner.

POWERPANEL® FOR LINUX

```
root@pslinux-testing-ubuntu:/storage/rectipsaw# ./storage/rectipsaw
File Edit View Search Terminal Help

root@pslinux-testing-ubuntu:/storage/rectipsaw# ./storage/rectipsaw -status
The UPS information shows as following:

PROPERTIES:
Model Name..... CP6250Gc
Firmware Number..... 8898104.03.0
Rating Voltage..... 120 V
Rating Power..... 375 watt

Current UPS status:
State..... Normal
Power Supply Re..... Utility Power
Utility Voltage..... 166 V
Output Voltage..... 167 V
Battery Charge..... 100 %
Remaining Runtime..... 3 min.
Load..... 2125W (max(10000 W))
Task Result..... Unknown
Last Power Event..... None

root@pslinux-testing-ubuntu:/storage/rectipsaw#
```

P. 14



EX SERIES

- GreenPower UPS™ Technology
- EMI, RFI, Surge and Spike Protection
- Phone / Fax / Modem / DSL / Network Protection
- Auto-Restart / Auto-Charge
- LED Status Indicator
- USB Connectivity Port
- Easy Battery Replacement
- PowerPanel® Personal Edition Software

BS SERIES

- GreenPower UPS™ Technology
- EMI, RFI, Surge and Lightning Spike Protection
- Auto-Restart / Auto-Charge
- USB Connectivity Port
- User-Replaceable Batteries
- Horizontal / Wall-Mounted Use
- Cable Collector Included
- PowerPanel® Personal Edition Software



P. 15

P. 13

DX / DL SERIES

- GreenPower UPS™ Technology
- EMI, RFI, Surge and Lightning Spike Protection
- Auto-Restart / Auto-Charge
- LCD Status Monitor*
- USB Connectivity Port
- PowerPanel® Personal Edition Software



HOME THEATER SYSTEM



VALUE SERIES

- GreenPower UPS™ Technology
- Automatic Voltage Regulation
- EMI, RFI, Surge and Lightning Spike Protection
- Phone / Fax / Modem / DSL / Network Protection
- Auto-Restart / Auto-Charge
- LED Status Indicators*
- LCD Status Monitor*
- USB & Serial Connectivity Ports
- PowerPanel® Personal Edition Software

P. 17

P. 18

VALUE SOHO SERIES

- GreenPower UPS™ Technology
- Automatic Voltage Regulation
- EMI, RFI, Surge and Lightning Spike Protection
- Phone / Fax / Modem / DSL / Network Protection
- Auto-Restart / Auto-Charge
- LCD Status Monitor
- USB & Serial Connectivity Ports
- User-Replaceable Batteries
- PowerPanel® Personal Edition Software



OFFICE

P. 16

BRICS LCD SERIES

- GreenPower UPS™ Technology
- Automatic Voltage Regulation
- EMI, RFI, Surge and Lightning Spike Protection
- Phone / Fax / Modem / DSL / Network Protection
- Auto-Restart / Auto-Charge
- LCD Status Monitor
- USB Connectivity Port
- User-Replaceable Batteries
- Horizontal/Wall-Mounted Use
- Cable Collector Included
- External Battery Charger*
- USB Charging Port*
- PowerPanel® Personal Edition Software

SMALL
OFFICE**Backup UPS Systems**

The Backup UPS Systems offers home and small office users the peace-of-mind of surge protection and battery backup for protection against brownouts, AC power sags, and total power outages.



MEDIUM BUSINESS

P. 19

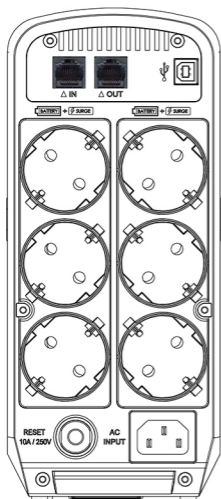
P. 20

PFC SINEWAVE SERIES

- GreenPower UPS™ Technology
- Automatic Voltage Regulation
- EMI, RFI, Surge and Lightning Spike Protection
- Phone / Fax / Modem / DSL / Network Protection
- Auto-Restart / Auto-Charge
- LCD Status Monitor
- User-Friendly Control Switch USB Charging Ports*
- User-Replaceable Batteries
- PowerPanel® Personal Edition Software

**INTELLIGENT LCD SERIES**

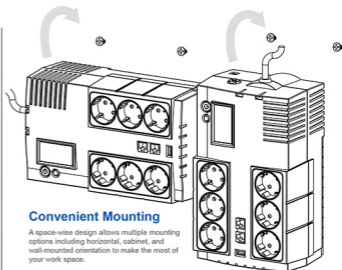
- GreenPower UPS™ Technology
- Automatic Voltage Regulation
- EMI, RFI, Surge and Lightning Spike Protection
- Phone / Fax / Modem / DSL / Network Protection
- Auto-Restart / Auto-Charge
- LCD Status Monitor
- USB Connectivity Port
- User-Replaceable Batteries
- PowerPanel® Personal Edition Software



RJ11/RJ45 PROTECTION

RJ11/RJ45 Protection

The RJ11/RJ45 port is designed to protect data lines and communication equipment from AC transients caused by surge, electrostatic discharge and other power abnormalities.



Convenient Mounting

A space-wise design allows multiple mounting options including horizontal, cabinet, and wall-mounted orientation to make the most of your work space.

CONVENIENT MOUNTING

Comparison Table

COMPARISON TABLE

Model	Form Factor	Waveform	LCD	AVR	VA	Watt	Outlets	RJ11/45	USB	Software	Designed for
DXIDL Series	Tower	**	*	-	450-850	270-490	3	-	v	v	Home / SOHO
EX Series	Tower	**	-	-	650-850	360-490	3	v	v	v	Home / SOHO
BS Series	Brick	**	-	-	450-850	270-490	6	-	v	v	Home / SOHO
BRICs LCD Series	Brick	**	v	v	650-1000	390-600	6	v	v	v	Home / SOHO
Value Series	Tower	**	*	v	600-2200	360-1320	3/6	v	v	v	Home / SOHO / SMEs*
Value SOHO Series	Tower	**	v	v	600-2200	360-1320	2/4	v	v	v	Home / SOHO / SMEs*
Intelligent LCD Series	Tower	**	v	v	1050-1500	630-900	6	v	v	v	Home / SOHO / SMEs
PFC Sinewave Series	Tower	Pure Sine Wave	v	v	900-1500	540-900	6	v	v	v	Home / SOHO / SMEs

* = Select Models ** = Featured with Simulated Sine Wave

CABLE COLLECTOR

Cable Collector

A well-suited solution to better assist in maintaining a neat and tidy work space. It simplifies the cable arrangement therefore increases the structural reliability for the total set of distribution cables.



AUTOMATIC VOLTAGE REGULATION (AVR)

Automatic Voltage Regulation (AVR)

Automatic Voltage Regulation (AVR) stabilizes the AC signal and maintains a safe voltage for the connected equipment. AVR regulates high and low voltages and brings the power to a nominal 220/240 volts. This allows the UPS to maintain safe power levels without resorting to battery power which significantly increases battery life and eliminates AC-DC power transfer when minor power fluctuations occur. It also reduces the chances of data loss, memory freezes, and system crashes.

MULTIFUNCTION LCD READOUT

Multifunction LCD Readout

Compact display.

Clear and consistent LCD readout of power/battery status including load, runtime, power and other information at a single push-of-a-button. Also, advanced setting can be configured to alert the potential power problems in advance.



LCD Display Information Table

Load/Current Level	Runtime	Output Frequency*
AVR in Use*	Battery in Use	Input Voltage
Overload	Battery Level	Output Voltage
Silent Mode	Battery Shutdown Voltage	Normal Operation
Battery Pack Numbers*	Static Frequency Tolerance	Slew Rate
Temperature (F and C)*		* = Select Models



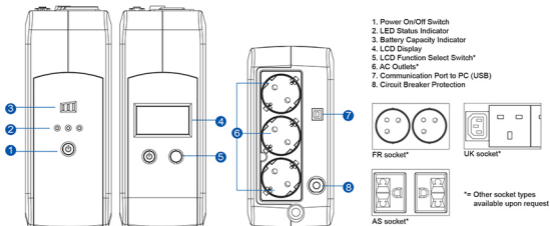
Detailed display.

Clear and consistent LCD readout of power/battery status including load, runtime, power, AVR and other information at a single push-of-a-button. Also, advanced setting can be configured to alert the potential power problems in advance.

LCD DISPLAY INFORMATION TABLE



Designed for home and office users, the DX/DL Series UPS provides the most cost-effective battery backup for PCs and SOHO networks. With EMI/RFI filters eliminating line noise or disturbances, it can supply reliable backup during power interruptions, brownouts and blackouts. The DL Series also features with multifunction LCD readout for immediate access to precise information of critical power/battery condition. With the cutting-edge compact design, it can make the most of your work place.



TECHNICAL SPECIFICATIONS

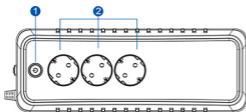
Model Name	DX450E	DX650E	DX850E	DL450ELCD	DL650ELCD	DL850ELCD
General						
UPS Topology	Standby					
Energy Saving	Yes					
Input						
Voltage	230Vac					
Input Voltage Range	192Vac - 263Vac					
Input Frequency Range	50/60Hz ± 3Hz (Auto-sensing)					
Rated Input Current	5A					
Plug Type	Schuko or UK or NEMA					
Output						
VA	450	650	850	450	650	850
Watts	270	360	490	270	360	490
On Battery Waveform	Simulated Sine Wave					
On Battery Voltage	230Vac ± 7%					
On Battery Frequency	50/60Hz ± 1%					
Outlets - Total	3					
Outlet Type	Schuko or FR or UK (UK x 2 + IEC x 1) or AS					
Outlets - Battery & Surge Protected	3					
Transfer Time	4ms					
Battery						
Runtime at Half Load (min)	6	6	7	6	6	7
Runtime at Full Load (min)	2	1	2	2	1	2
Battery Type	Sealed Lead Acid					
Battery Quantity	1					
Typical Recharge Time	8 Hours					
Surge Protection & Filtering						
Surge Suppression	405 Joules					
Management & Communications						
HD Compliant USB Port	Yes					
LED Indicators	Using AC, Using Battery, Fault, Battery Capacity					
Audible Alarms	On Battery, Low Battery, Overload, Fault					
Software	PowerPanel® Personal Edition					
Physical						
Form Factor	Tower					
Physical Size						
Physical - UPS Module						
Dimensions (WxHxD) (mm.)	80 x 190 x 235					
Weight (kg.)	2.1	2.8	3.0	2.1	2.8	3.0
Environmental						
Operating Temperature	+ 32°F to 104° F / 0° C to 40° C					
Operating Humidity	10% - 90% non-condensing					
Operating Elevation	0-1000 meters					
Storage Temperature	+5 °F to 113°F / -15°C to 45 °C					
Storage Relative Humidity	10% - 95%					
Online Thermal Dissipation	21 BTU/hr	30 BTU/hr	41 BTU/hr	21 BTU/hr	30 BTU/hr	41 BTU/hr

RJ11/RJ45 Data Line Protection

The RJ11/RJ45 Data Line Protection is to protect phone, data lines and communication equipment from AC transients caused by surge, electrostatic discharge and other power abnormalities.



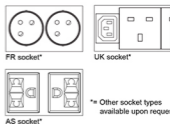
Featuring with surge protected RJ11/RJ45 port, the EX Series UPS is ideal for home entertainment systems and SOHO networks with its full protection against surge/spikes and power abnormalities. With EMI/RFI filters eliminating line noise or disturbances, it can supply reliable backup during power interruptions, brownouts and blackouts. Space-wise tower design can be placed horizontally or vertically to make the most your work space!



1. Power On/Off Switch
2. AC Outlets*
3. Communication Protection Ports RJ11/RJ45



4. Communication Port to PC (USB)
5. Circuit Breaker Protection



*Other socket types available upon request

TECHNICAL SPECIFICATIONS

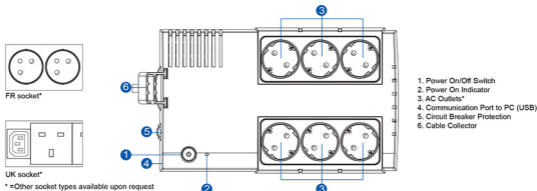
Model Name	EX550E	EX350E
General		
UPS Topology		Standby
Energy Saving		Yes
Input		
Voltage		230Vac
Input Voltage Range		160Vac - 263Vac
Input Frequency Range		50/60Hz ± 3Hz (Auto-sensing)
Rated Input Current		10A
Plug Type		Schuko or UK
Output		
VA	650	650
Watts	360	490
On Battery Waveform		Simulated Sine Wave
On Battery Voltage		230Vac ± 10%
On Battery Frequency		50/60Hz ± 1%
Outlets - Total		3
Outlet Type		Schuko or FR or UK (UK × 2 = IEC × 1)
Outlets - Battery & Surge Protected		2
Transfer Time		4ms
Battery		
Runtime at Half Load (min)	6	7
Runtime at Full Load (min)	1	2
Battery Type		Sealed Lead Acid
Battery Quantity		1
User Replaceable		Yes
Typical Recharge Time		8 Hours
Replacement Battery Pack	RSP000	RSP001
Replacement Battery Pack Quantity		1
Surge Protection & Filtering		
Surge Suppression		1215 Joules
Phone / Network Protection RJ11/RJ45		1-In, 1-Out (Combo)
Management & Communications		
HiD Compliant USB Port		Yes
LED Indicators		Power On, Wiring Fault
Audible Alarms		On Battery, Low Battery, Overload
Software		PowerPanel [®] Personal Edition
Physical		
Form Factor		Brick
Physical Size		
Physical - UPS Module		
Dimensions (WxHxD) (mm.)		100 x 84 x 309
Weight (kg.)	2.7	3
Environmental		
Operating Temperature		+32°F to 104° F / 0° C to 40° C
Operating Humidity		0% - 90% non-condensing
Operating Elevation		0-1000 meters
Storage Temperature		-4°F to 122° F / -20° C to 50° C
Storage Relative Humidity		0% - 90%
Online Thermal Dissipation	30 BTU/hr	41 BTU/hr



EMI/RFI Noise Filtering

The advanced EMI/RFI Noise Filtering helps to reduce electromagnetic and radio frequency interference problems. These filters smooth out minor current fluctuations hence effectively improve picture and sound quality in audio/video systems.

The BS Series UPS provide home and office user peace of mind surge protection against spikes and power abnormalities. With EMI/RFI filters eliminating line noise or disturbances, it can supply reliable backup during power interruptions, brownouts and blackouts. The flexible mounting design allows multiple solution including horizontal, cabinet, and wall-mounted orientation for the best degree of placement arrangement.



TECHNICAL SPECIFICATIONS

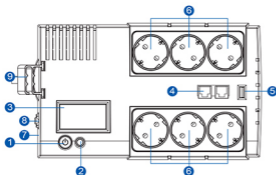
Model Name	BS450E	BS650E	BS850E
General			
Line Topology		Standby	
Energy Saving		Yes	
Input			
Voltage		230Vac	
Input Voltage Range		192Vac - 263Vac	
Input Frequency Range		50/60Hz \pm 3Hz (Auto-sensing)	
Rated Input Current		1.5A	
Plug Type		Schuko or UK	
Output			
VA	450	650	850
Watts	270	360	490
On Battery Waveform		Simulated Sine Wave	
On Battery Voltage		230Vac \pm 7%	
On Battery Frequency		50/60Hz \pm 1%	
Outlets - Total		6	
Outlet Type		Schuko or FR or UK, (UK x 4 + IEC x 2)	
Outlets - Battery & Surge Protected		3	
Outlets - Surge-Only Protected		3	
Transfer Time		4ms	
Battery			
Runtime at Half Load (min)	6	7	7
Runtime at Full Load (min)	2	1	2
Battery Type		Sealed Lead Acid	
Battery Quantity		1	
User Replaceable		Yes	
Typical Recharge Time		8 Hours	
Replacement Battery Pack	RPB002	RPB0050	RPB0081
Replacement Battery Pack Quantity		1	
Surge Protection & Filtering			
Surge Suppression		405 Joules (L-N)	
Management & Communications			
HiD Compliant USB Port		Yes	
LED Indicators		Power On, Using Battery	
Audible Alarms		On Battery, Low Battery, Overload, Fault	
Software		PowerPanel SM Personal Edition	
Physical			
Form Factor		Brick	
Physical Size			
Physical - UPS Module			
Dimensions (WxHxD) (mm.)		180 x 114 x 271	
Weight (kg.)	2.6	3.1	3.4
Environmental			
Operating Temperature		+ 32° F to 104° F / 0° C to 40° C	
Operating Humidity		0% - 90% non-condensing	
Operating Elevation		0-1000 meters	
Storage Temperature		- 4° F to 122° F / -20° C to 50° C	
Storage Relative Humidity		0% - 90%	
Online Thermal Dissipation	14 BTU/hr	18 BTU/hr	21 BTU/hr

External Battery Charger**

The external battery charger is an add-on gadget which allows you to charge additional 4 AA/AAA batteries while utilizing the UPS.
Note: AA/AAA batteries are NOT included.



The BRICS LCD Series UPS offers home and small office users clean and stable battery backup while the featured RJ11/RJ45 port ensures phone, fax, and modem lines are protected from surges. With Automatic Voltage Regulation (AVR) stabilizes the AC signal and maintains a safe voltage, this allows the UPS to maintain safe power levels for the connected equipment without resorting to battery power. Flexible mounting design allows multiple solution including horizontal, cabinet, and wall-mounted orientation for the best degree of placement arrangement.



FR socket*



UK socket*

1. Power On/Off Switch
2. LCD Function Select Switch
3. LCD Display
4. Communication Protection Ports
RJ11/RJ45
5. Battery Charger USB Port
6. AC Outlets*
7. Communication Port to PC (USB)
8. Circuit Breaker Protection
9. Cable Collector

* =Other socket types available upon request

TECHNICAL SPECIFICATIONS

Model Name	BR500LCD	BR500LCD	BR1000LCD
General			
UPS Topology		Line-interactive	
Energy Saving		Yes	
Input			
Voltage		220Vac	
Input Voltage Range		165Vac - 287Vac	
Input Frequency Range		50/60Hz ± 3Hz (Auto-sensing)	
Rated Input Current		10A	
Plug Type		Schuko or UK	
Output			
VA	650	850	1000
Watts	390	510	600
On Battery Waveform		Simulated Sine Wave	
On Battery Voltage		220Vac ± 10%	
Automatic Voltage Regulation (AVR)		Yes	
On Battery Frequency		50/60Hz ± 1%	
Outlets - Total		6	
Outlet Type		Schuko or FR or UK (UK x 4 + IEC x 2)	
Outlets - Battery & Surge Protected		3	
Outlets - Surge Only Protected		3	
USB Charging Ports		Yes	
Transfer Time		4ms	
Battery			
Runtime at Half Load (min)	9	8	7
Runtime at Full Load (min)	2	2	0.5
Battery Type		Sealed Lead Acid	
Battery Quantity		1	
User Replaceable		Yes	
Typical Recharge Time		8 Hours	
Replacement Battery Pack	RSP0083		RSP0006
Replacement Battery Pack Quantity		1	
Surge Protection & Filtering			
Surge Suppression		125 Joules (5-N)	
Phone / Network Protection RJ11/RJ45		1-In, 1-Out (Combo)	
Management & Communications			
LCD Control Panel		Yes	
HID Compliant USB Port		Yes	
Audible Alarms		On Battery, Low Battery, Overload, Fault	
Software		PowerPanel® Personal Edition	
Physical			
Form Factor		Brick	
Physical Size			
Physical - UPS Module			
Dimensions (WxHxD) (mm.)		359 x 162 x 113	
Weight (kg.)	5.6	6.6	6.8
Environmental			
Operating Temperature		+ 32°F to 104° F / 0° C to 40° C	
Operating Humidity		0% - 90% non-condensing	
Operating Elevation		0-1000 meters	
Storage Temperature		-4°F to 122° F / -20° C to 50° C	
Storage Relative Humidity		0% - 90%	
Online Thermal Dissipation	71 BTU/hr	72 BTU/hr	102 BTU/hr

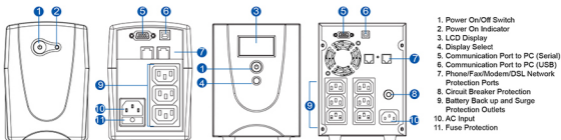
†All specifications are subject to change without notice. ©2014 CyberPower Systems. All Trademarks are the property of their owners.



IEC Socket

The Value Series UPS features IEC female sockets which are commonly used in electric devices such as computers, workstations, laptops, printers, etc., hence the best choice for office solution.

The Value Series UPS offers home and small office users clean and stable battery backup while the featured RJ11/RJ45 port ensures phone, fax, and modem lines are protected from surges. With Automatic Voltage Regulation (AVR) stabilizes the AC signal and maintains a safe voltage, this allows the UPS to maintain safe power levels for the connected equipment without resorting to battery power. The multifunction LCD readout provides immediate access to precise information of critical power/battery conditions.



1. Power On/Off Switch
2. Power On Indicator
3. LCD Display
4. Display Select
5. Communication Port to PC (Serial)
6. Communication Port to PC (USB)
7. Phone/Fax/Modem/DSL Network Protection Ports
8. Circuit Breaker Protection
9. Battery Back up and Surge Protection Outlets
10. AC Input
11. Fuse Protection

TECHNICAL SPECIFICATIONS

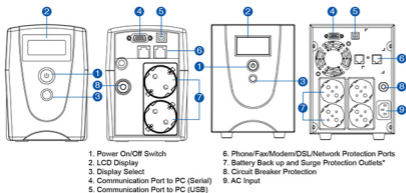
Model Name	VALUE600E1	VALUE600E1	VALUE1000E1	VALUE1200E1LCD	VALUE1500E1LCD	VALUE2200E1LCD
General						
UPS Topology	Line-Interactive					
Energy Saving	Yes					
Input						
Voltage	230Vac					
Input Voltage Range	165Vac - 280Vac					
Input Frequency Range	50/60Hz ± 3Hz (Auto-sensing)					
Rated Input Current	8A					
Plug Type	IEC 320 C14					
Output						
VA	600	800	1000	1200	1500	2200
Watts	360	480	550	720	900	1320
On Battery Waveform	Simulated Sine Wave					
On Battery Voltage	230 Vac ± 10%					
Automatic Voltage Regulation (AVR)	Yes					
On Battery Frequency	50/60Hz ± 1%					
Outlets - Total	3					
Outlet Type	IEC 320 C13					
Outlets - Battery & Surge Protected	3					
Transfer Time	4ms					
Battery						
Runtime at Half Load (min)	8	8	7	8	10	6
Runtime at Full Load (min)	1	1	1	2	2	1
Battery Type	Sealed Lead Acid					
Battery Quantity	2					
User Replaceable	Yes					
Replacement Battery Pack	RBP004					
Replacement Battery Pack Quantity	2					
Surge Protection & Filtering						
Surge Suppression	405 Joules (L-N)					
Phone / Network Protection RJ11/RJ45	1-in, 1-Out					
Management & Communications						
LCD Control Panel	Yes					
HID Compliant USB Port	Yes					
Serial Port	Yes					
LED Indicators	Power On, Using Battery					
Audible Alarms	On Battery, Low Battery, Overload, Fault					
Software	PowerPanel® Personal Edition					
Physical						
Form Factor	Tower					
Physical Size						
Physical - UPS Module						
Dimensions (WxHxD) (mm.)	100 x 140 x 300		112		140 x 180 x 326	
Weight (kg.)	4.6	5.2	5.5	11.2	13.2	14.5
Environmental						
Operating Temperature	+ 32° F to 104° F / 0° C to 40° C					
Operating Humidity	0% - 90% non-condensing		10% - 95% non-condensing			
Operating Elevation	0-1000 meters					
Storage Temperature	-4° F to 122° F / -20° C to 50° C					
Storage Relative Humidity	0% - 90%					
Online Thermal Dissipation	99 BTU/hr	102 BTU/hr	109 BTU/hr	167 BTU/hr	198 BTU/hr	225 BTU/hr

Local Socket

The Value SOHO Series UPS features local sockets which are commonly used in household electric appliances such as lamp, standing fan, audio/video systems, LCD TV, etc., hence the best choice for home solution.



The Value SOHO Series UPS offers home and small office users clean and stable battery backup while the featured RJ11/RJ45 port ensures phone, fax, and modem lines are protected from surges. With Automatic Voltage Regulation (AVR) stabilizes the AC signal and maintains a safe voltage, this allows the UPS to maintain safe power levels for the connected equipment without resorting to battery power. The multifunction LCD readout provides immediate access to precise information of critical power/battery conditions.



*= Other socket types available upon request

TECHNICAL SPECIFICATIONS

Model Name	VALUE600ELCD	VALUE800ELCD	VALUE1000ELCD	VALUE1200ELCD	VALUE1500ELCD	VALUE2200ELCD
General						
UPS Topology	Line-interactive					
Energy Saving	Yes					
Input						
Voltage	230Vac					
Input Voltage Range	165Vac - 260Vac					
Input Frequency Range	50/60Hz ± 3Hz (Auto-sensing)					
Rated Input Current	10A (Schuko or FR) or 8A (AS)			10A		
Plug Type	Schuko or NEMA					
Output						
VA	600	800	1000	1200	1500	2200
Watts	360	480	550	720	900	1320
On Battery Waveform	Simulated Sine Wave					
On Battery Voltage	230 Vac ± 10%					
Automatic Voltage Regulation (AVR)	Yes					
On Battery Frequency	50/60Hz ± 1%					
Outlets - Total	2 (Schuko, FR) or 3 (AS)			4		
Outlet Type	Schuko or FR or AS			4		
Outlets - Battery & Surge Protected	2 (Schuko, FR) or 3 (AS)			4		
Transfer Time	4ms					
Battery						
Runtime at Half Load (min)	8	8	7	8	10	6
Runtime at Full Load (min)	1	1	1	2	2	1
Battery Type	Sealed Lead Acid					
Battery Quantity	1			2		
User Replaceable	-			Yes		
Typical Recharge Time	8 Hours					
Replacement Battery Pack	-			RBP004	RBP005	RBP006
Replacement Battery Pack Quantity	-			2		
Surge Protection & Filtering						
Surge Suppression	405 Joules (L-N)					
Phone / Network Protection RJ11/RJ45	1-IN, 1-OUT					
Management & Communications						
LCD Control Panel	Yes					
HID Compliant USB Port	Yes					
Serial Port	Yes					
Audible Alarms	On Battery, Low Battery, Overload, Fault					
Software	PowerPanel® Personal Edition					
Physical						
Form Factor	Tower					
Physical Size						
Physical - UPS Module						
Dimensions (WxHxD) (mm.)	100 x 140 x 300			140 x 180 x 326		
Weight (kg.)	4.6	5.2	5.5	11.2	13.2	14.5
Environmental						
Operating Temperature	+ 32°F to 104°F / 0° C to 40° C					
Operating Humidity	0% - 90% non-condensing			10% - 95% non-condensing		
Operating Elevation	0-1000 meters					
Storage Temperature	- 4°F to 122° F / - 20° C to 50° C					
Storage Relative Humidity	0% - 90%					
Online Thermal Dissipation	99 BTU/hr	102 BTU/hr	109 BTU/hr	167 BTU/hr	166 BTU/hr	225 BTU/hr

All specifications are subject to change without notice. ©2014 CyberPower Systems. All Trademarks are the property of their owners.



Multifunction LCD Readout (Detailed Display)

Clear and consistent LCD readout of power/battery status including load, runtime, power and other information at a single push-of-a-button. Also, advanced setting can be configured to alert potential power problems in advance.

Designed for small office/SOHO computers and home entertainment systems, the Intelligent LCD Series features "Best-In-Class" power protection with Automatic Voltage Regulation (AVR) line conditioning to maintain safe power levels for connected equipment without resorting to battery power. The full protection of RJ11/RJ45 port ensures phone, fax, and modem lines are protected from surges and spikes. The multifunction LCD readout provides immediate access to precise information of critical power/battery conditions.

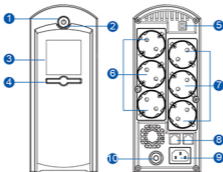


FR socket*



UK socket*

* =Other socket types available upon request



1. Power On/Off Switch
2. Power On Indicator
3. LCD Display
4. LCD Display Toggle/Selected Switch
5. Communication Port to PC (USB)
6. Battery Back up and Surge Protection Outlets*
7. Full-Time Surge Protection Outlets*
8. Phone/Fax/Modem/DSL Network Protection Ports
9. AC Input
10. Circuit Breaker Protection

TECHNICAL SPECIFICATIONS

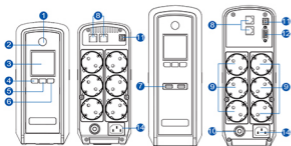
Model Name	CP1505EAVRLCD	CP1350EAVRLCD	CP1500EAVRLCD
General			
UPS Topology		Line-Interactive	
Energy Saving		Yes	
Input			
Voltage		230Vac	
Input Voltage Range		160Vac - 265Vac	
Input Frequency Range		50/60Hz ± 3Hz (Auto-sensing)	
Rated Input current		10A	
Plug Type		Schuko or UK	
Output			
V/A	1050	1350	1500
Watts	630	810	900
On Battery Waveform		Simulated Sine Wave	
On Battery Voltage		230Vac ± 10%	
Automatic Voltage Regulation (AVR)		Yes	
On Battery Frequency		50/60Hz ± 1%	
Outlets - Total		6	
Outlet Type		Schuko or FR or UK (UK x 2 + IEC x 4)	
Outlets - Battery & Surge Protected		3	
Outlets - Surge-Only Protected		3	
Transfer Time		4ms	
Battery			
Runtime at Half Load (min)	12	10	11
Runtime at Full Load (min)	3	2	3
Battery Type		Sealed Lead Acid	
Battery Quantity		2	
User Replaceable		Yes	
Typical Recharge Time		8 Hours	
Replacement Battery	RBP0012	RBP0004	RBP0015
Surge Protection & Filtering			
Surge Suppression		1215 Joules	
Phone / Network Protection RJ11/RJ45		1-in, 1-Out (Combo)	
Management & Communications			
LCD Control Panel		Yes	
HD Compliant USB Port		Yes	
LED Indicators		Power On, Wiring Fault	
Audible Alarms		On Battery, Low Battery, Overload	
Software		PowerPanel® Personal Edition	
Physical			
Form Factor		Tower	
Physical Size			
Physical - UPS Module			
Dimensions (WxHxD) (mm.)		100 x 248 x 371	
Weight (kg.)	10.3	11.5	12.1
Environmental			
Operating Temperature		+ 32°F to 104°F / 0° C to 40° C	
Operating Humidity		0% - 90% non-condensing	
Operating Elevation		0-10000 feet (0-3000 meters)	
Storage Temperature		5 °F to 113°F / -15°C to 45 °C	
Storage Relative Humidity		0 - 95%	
Online Thermal Dissipation	31 BTU/hr	41 BTU/hr	61 BTU/hr

Active PFC Power Supplies Compatible

The PFC Sinewave Series protects equipment with Active PFC power supplies from unexpectedly shutdown or harmful stress when switching from AC power to UPS battery power.



The PFC Sinewave UPS with pure sine wave output safeguards mid- to high-end computer systems, servers and networking hardware that use conventional and Active Power Factor Correction (PFC) power supplies while the featured RJ11/RJ45 port ensures phone, fax, and modem lines are protected from surges. With Automatic Voltage Regulation (AVR) stabilizes the AC signal and maintains a safe voltage, this allows the UPS to maintain safe power levels for the connected equipment without resorting to battery power. The multifunction LCD readout provides immediate access to precise information of critical power/battery conditions.



1. Power On/Off Switch
2. Power On Indicator
3. LCD Module Display
4. Display Switch
5. Silence Alarm Switch
6. Control Switch
7. Battery Charger USB Ports
8. Communication Protection Ports RJ11/RJ45
9. Battery and Surge Protected Outlets
10. Circuit Breaker
11. USB Port to PC
12. Serial Port to PC
13. AC Input



* Other socket types available upon request

TECHNICAL SPECIFICATIONS

Model Name	CP980EPPCLCD	CF1300EPPCLCD	CF1500EPPCLCD
General			
UPS Topology		Line-Interactive	
Energy Saving		Yes	
Input			
Voltage		230Vac	
Input Voltage Range		165Vac - 265Vac	
Input Frequency Range		50/60Hz ± 3Hz (Auto-sensing)	
Rated Input Current		10A	
Plug Type	Schuko		Schuko or UK or NEMA
Output			
VA	900	1300	1500
Watts	540	780	900
On Battery Waveform		Pure Sine Wave	
On Battery Voltage		230Vac ± 10%	
Automatic Voltage Regulation (AVR)		Yes	
On Battery Frequency		50/60Hz ± 1%	
Outlets - Total	6		6 (Schuko, UK) or 8 (NEMA)
Outlet Type	Schuko		Schuko or UK (UK x 2 + IEC x 4) or NEMA
Outlets - Battery & Surge Protected	6		3 (UK) or 6 (Schuko) or 8 (NEMA)
Outlets - Surge-Only Protected	0		3 (UK) or 0 (Schuko, NEMA)
USB Charging Ports	-		Yes
Transfer Time (Typical)		4ms	
Battery			
Runtime at Half Load (min)	7	9	10
Runtime at Full Load (min)	1	2	3
Battery Type		Sealed Lead Acid	
Battery Size	12V8.5AH	12V7TAH	12V8.5AH
Battery Quantity	1		2
User Replaceable		Yes	
Typical Recharge Time		8 Hours	
Replacement Battery	RBP001	RBP0013	RBP0016
Surge Protection & Filtering			
Surge Suppression		455 Joules	
Phone Protection RJ11		Yes	
Phone / Network Protection RJ11/RJ45		1-In, 1-Out (Combo)	
Management & Communications			
LCD Control Panel		Yes	
HID Compliant USB Port		Yes	
Serial Port	-		Yes
LED Indicators		Power On	
Audible Alarms		On Battery, Low Battery, Overload, Fault	
Software		PowerPanel® Personal Edition	
Physical			
Form Factor		Tower	
Physical Size			
Physical - UPS Module			
Dimensions (WxHxD) (mm.)	100 x 230 x 275		100 x 265 x 370
Weight (kg.)	6.6		10.9
Environmental			
Operating Temperature		+ 32°F to 104° F / 0° C to 42° C	
Operating Humidity		0% - 95% non-condensing	
Operating Elevation		0-10000 feet (0-3000 meters)	
Storage Temperature		5° F to 113° F / -15° C to 45° C	
Storage Relative Humidity		0 - 95%	
Online Thermal Dissipation	31 BTU/hr	41 BTU/hr	61 BTU/hr

#All specifications are subject to change without notice. ©2014 CyberPower Systems. All Trademarks are the property of their owners.



The Smart Choice for Corporate



POWERPANEL® BUSINESS EDITION



PowerPanel® Business Edition is designed for enterprise-class applications, and gives power users and administrators the tools needed for full local/remote control. This industry-leading software is capable of managing all power conditions of workstations and servers electrically-connected to the UPS on the network. Its features include automatic event logging/reporting, notifications, server shutdown, and a user-friendly dashboard interface. It also allows for control customization. These enterprise-level features give administrators the power to fully manage their UPS system and safeguard all connected equipment.

PowerPanel® Business Edition software consists of Agent, Client and Center:

The Agent - Monitors and configures the UPS through USB or serial connection. It logs UPS status and power events, and gracefully shutdown the hosted computer in response to the event of power failure.

The Client - Establishes communication with the Agent and RMCARD, and generates actions when power event occurs. In the event of power failure, each Client will request the hosted computer to shut down following notifications from the UPS, ensuring computer/device powered by the UPS can be fully protected.

The Center - Simultaneously monitors and controls multiple UPSs and computers with Agent or Client installed via local network. It also logs events and results about commands for power management.



- Automatic file-savings, equipment shutdowns, and OS hibernation



- Scheduled shutdowns, outlet control, and restarts



- Multiple alert notification options: Email, SMS, Messenger, Alert message box

Servers/workstations protected by the UPS must be installed with PowerPanel® Business Edition to enjoy the extra value-packaged features as below:

• UPS Status Notification

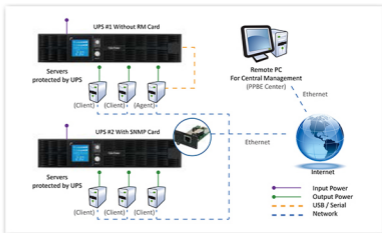
Define recipients of event notification who are under the same domain name with that of the protected servers/workstations.

• Safe Shutdown Operation

Configure graceful shutdown of the protected servers/workstations.

• User Programmable Command File

In the event action section, we provide flexibility in addition to your own command file to perform a specific action.



vmware
READY

PowerPanel® Business Edition for Virtual Environments

As the trend of virtualization has transformed the IT industry, the need for power protection comes from not only the physical investments but virtual IT environments. With PowerPanel® Business Edition, enterprises using VMware ESX 4.1 or later versions can easily manage UPS powering an ESX/ESXi host platform and virtual machines for monitoring UPS status or performing graceful unattended shutdown and other advanced configuration.

In addition, PowerPanel® Business Edition can also be installed on the following operation systems:

- Windows 8 / 7 / Vista / XP
- Windows Server 2012 / Server 2012 R2 / Server 2008 / Server 2008 R2 / Windows 2003
- Hyber-V Server 2012 / Server 2012 R2
- Citrix XenServer 5 or later versions
- Linux builds or later versions, e.g. Red Hat Enterprise 5.1 / Fedora 7 / SUSE 10.1 / Debian 5.1 / Ubuntu 9.10

REMOTE MANAGEMENT CAPABILITIES

The Smart App UPS Systems feature remote network management capabilities which include the PowerPanel® Business Edition software and the optional SNMP/ HTTP Remote Management Card and ENVIROSENSOR. These management tools enable administrators to perform various operations including remote management, real-time monitoring, UPS configuration, and scheduled server/workstations shutdowns.

All Smart App UPS systems and Remote Management Card has achieved the status of Cisco EnergyWise certified, better supporting other EnergyWise-enabled entities and be easily monitored and controlled to achieve the best energy performance under the EnergyWise operation framework.

The Smart App UPS systems and Remote Management Card has tested compatible with Cisco EnergyWise 1.2.0. Go to www.cisco.com/go/compatibilityclaimer for complete disclaimer.



Remote Management Card

The Remote Management RMCARD is an optional choice to be added to any Smart App UPS systems for remote management and configuration of the UPS via standard web browsers or network management system (NMS). Administrator can access, monitor and perform remote management including UPS scheduled shutdown, startup and reboot; multiple alert notifications by e-mail, SMS, and SNMP trap; flexible event action setting. With its Hot Swapping Capability, the UPS systems can remain 100% uptime and availability for connected equipment when performing RMCARD installation and replacement.

Product Features

- Real-time UPS monitoring
- Remote management and configuration of UPS via Web Browser or NMS
- Support auto-shutdown of servers/workstations to protect from data loss due to power failure
- Hot-swappable (Plug-n-Play)
- Schedule shutdown/start-up/reboot of the UPS via remote control
- Event logging to track UPS operational history
- Data logging for analyzing power conditions
- Event notifications via email, SMS and SNMP traps
- Support TCP/IP, UDP, SNMPv1/HTTP, TELNET, NTP, DNS, SMTP protocols. (HW1.0 above). Support IPv6, HTTPs, SNMPv3, SSH protocols. (HW2.0 above)
- SNMP MIB provided
- Quick installation and user friendly interface
- User upgradeable firmware via FTP
- Security management provided
- 10/100 Mbps Ethernet Compatible
- Support ENVIROSENSOR to monitor temperature and humidity (RMCARD 203/303 only)

Remote Management Card

Model	RMCARD202	RMCARD203	RMCARD302	RMCARD303
Remote Management		HTTP, NMS		
Auto Shutdown		Workstations, Multiple Servers		
Upgradable User Firmware		v		
Auto Event Notification		E-mail, SMS, SNMP TRAP		
Remote Scheduling		Shutdown, Startup, Reboot		
Ethernet Speeds (Mbps)		10/100		
Auto Shutdown Clients		50		
ENVIROSENSOR Compatible	N/A	v	N/A	v

Environmental Sensor

The Environmental Sensor (ENVIROSENSOR) along with the selected Remote Management Card (RMCARD203/303) enables administrators to monitor real-time temperature and humidity readings to ensure all engineering devices are operating under appropriate environmental conditions. Via standard web browsers, administrators can easily monitor not only the ambient temperature and humidity but the status of connected devices such as door alarms and smoke detector. When a defined event happens, the bundled RMCARD will send notifications to administrators for further offsite management, hence makes it appropriately applicable for datacenters, IT closets and other mission-critical installations.

Product Features

- Real-time environment monitoring
- Remote management and configuration of the sensor via Web Browsers or NMS
- Automatic event notifications via e-mail, SMS and SNMP traps
- 4 input dry contacts application interface provided
- Displays the name and location of the sensor and connected devices

Environmental Sensor

Model Name	ENVIROSENSOR
Measurement Range and Accuracy	
Temperature	0-70°C with accuracy ± 1°C
Humidity	10-90RH with accuracy ± 2%
Communication	
Connection Port	RJ45 Port
Input Contact Closure	4
Physical	
Dimensions (L x W x H) (mm)	59 x 45 x 29
Weight (g)	41.5

ONSITE MANAGEMENT CAPABILITY

The RELAYIO500 Relay Control Card is a management solution, providing users the abilities of onsite UPS status monitoring and local device control via 5 output relays. In addition, RELAYIO500 provides 1 input contact to perform UPS shutdown in battery mode.

Product Features

- Onsite UPS status monitoring & local device control
- 5 contact closures indicating UPS status information
- Perform onsite UPS shutdown on battery mode by contact closure input
- Hot-swappable (Plug-n-Play)
- Quick installation
- Dry Contact



Model Name	RELAYIO500	
Electrical		
External S/D Voltage	7.5-12V	
Power Dissipation	1.35W Max (Default 12V input)	
Physical		
Dimensions (W x H x D) (mm)	41.8 x 14.2 x 81	
Weight (g)	41.6	
Environmental		
Operating Temperature	0 - 40°C	
Operating Humidity	0 to 95%	
	Output Relay Rating	
	Maximum Voltage	Maximum Current
	30VDC / 1255VAC	3A (per relay)



OFFICE RACKMOUNT SERIES

- GreenPower UPS™ Technology
- Line-Interactive UPS Topology
- Automatic Voltage Regulation
- EMI, RFI, Surge and Lightning Spike Protection
- Phone / Fax / Modem / DSL / Network Protection
- Auto-Restart / Auto-Charge
- Protected On / Off Switch
- Multifunction LCD Readout
- USB & Serial Connectivity Ports
- Hot-Swappable Battery Packs
- User-Replaceable Batteries
- SNMP / HTTP Remote Management Capability (Optional)
- PowerPanel® Business Edition Software

P. 31



Smart App UPS Systems

The Smart App UPS Systems provides an advanced level of protection and local / remote management software that support mission-critical servers, telecom equipment, VOIP, and internetworking hardware.



ONLINE S SERIES

- Pure Sine Wave Output
- Rack / Tower Convertible Configuration*
- Critical Load Outlets
- Auto-Restart / Auto-Charge
- Multifunction LCD Readout
- USB & Serial Connectivity Ports
- Hot-Swappable Battery Packs
- Generator Mode Setting**
- Smart Battery Management
- PowerPanel® Business Edition Software
- Online (Double Conversion) UPS Topology
- EMI, RFI, Surge and Lightning Spike Protection
- Phone / Fax / Modem / DSL / Network Protection
- Emergency Power Off (EPO) Port
- Rotatable LCD Indicator*
- Extended Runtime (XL) Models*
- Online Output Voltage Setting*
- Economy Mode Setting
- SNMP / HTTP Remote Management Capability (Optional)

P. 37

**Select models

ONLINE SERIES

- Pure Sine Wave Output
- Online (Double Conversion) UPS Topology
- Rack / Tower Convertible Configuration*
- EMI, RFI, Surge and Lightning Spike Protection
- Critical Load Outlets
- Phone / Fax / Modem / DSL / Network Protection
- Auto-Restart / Auto-Charge
- Emergency Power Off (EPO) Port
- Multifunction LCD Readout
- Rotatable LCD Indicator*
- USB & Serial Connectivity Ports
- Extended Runtime (XL) Models
- Hot-Swappable Battery Packs
- Online Output Voltage Setting
- Generator Mode Setting
- Economy Mode Setting
- Smart Battery Management
- Fixed Charging Time with Extended Battery Pack
- Smart Fan Speed Control by Load Level
- SNMP / HTTP Remote Management Capability (Optional)
- PowerPanel® Business Edition Software

P. 41

**Select models



& HOME OFFICE

MEDIUM BUSINESS

PROFESSIONAL TOWER SERIES

P. 32

- GreenPower UPS™ Technology
- Pure Sine Wave Output
- Line-Interactive UPS Topology
- Automatic Voltage Regulation
- EMI, RFI, Surge and Lightning Spike Protection
- Auto-Restart / Auto-Charge
- Emergency Power Off (EPO) Port
- Multifunction LCD Readout
- Detachable LCD Panel
- USB & Serial Connectivity Ports
- User-Replaceable Batteries
- SNMP / HTTP Remote Management Capability (Optional)
- PowerPanel® Business Edition Software



SYSTEM

NETWORKING
SERVERS
WORKSTATIONS



PROFESSIONAL RACKMOUNT SERIES


P. 33

- GreenPower UPS™ Technology
- Line-Interactive UPS Topology
- Automatic Voltage Regulation
- Critical Load Outlets
- Auto-Restart / Auto-Charge
- Protected On / Off Switch
- Rotatable LCD Indicator*
- Extended Runtime (XL) Models*
- User-Replaceable Batteries
- PowerPanel® Business Edition Software
- Pure Sine Wave Output
- Rack / Tower Convertible Configuration
- EMI, RFI, Surge and Lightning Spike Protection
- Phone / Fax / Modem / DSL / Network Protection
- Emergency Power Off (EPO) Port
- Multifunction LCD Readout
- USB & Serial Connectivity Ports
- Hot-Swappable Battery Packs
- SNMP / HTTP Remote Management Capability (Optional)

INDUSTRIAL EQUIPMENT

* = Select Models

AUTOMATIC VOLTAGE REGULATION (AVR)



Automatic Voltage Regulation (AVR)

Automatic Voltage Regulation (AVR) stabilizes the AC signal and maintains a safe voltage for the connected equipment. AVR regulates high and low voltages and brings the power to a nominal 220/240 volts. This allows the UPS to maintain safe power levels without resorting to battery power which significantly increases battery life and eliminates AC-DC power transfer when minor power fluctuations occur. It also reduces the chances of data loss, memory freezes, and system crashes.



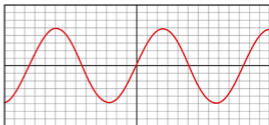
PURE SINE WAVE

Pure Sine Wave

The Smart App UPS System provides mission-critical equipment with the highest level of line clarity- Pure Sine Wave. Distorted power and power anomalies, such as harmonics, high voltage transients, and surges, while not as obvious as blackouts, can cause serious equipment performance and reliability problems. When incoming power is abnormal, the Smart App UPS models deliver smooth, sine wave battery output, which ensures equipment continues to operate optimally. Pure sine wave power is required for an increasing number of electronics that utilize Power Factor Corrections (PFC) power supplies.

Pure Sine Wave Benefits:

- **Servers:** Operates at optimal specifications.
- **Electronic Equipment:** Extends equipment life (such as VOIP, PBX) by running cooler and more efficient.
- **Telecommunications:** Eliminates disrupting static, or hum in telecommunication equipment.
- **Sensitive Electronics:** Operates properly and retain settings.
- **Commercial/Professional Audio/Video:** Power noise is eliminated, removing lines in television screens and hum in sound systems.



Simulated Sine Wave output produces a sine wave that is "stepped" or modified, while Pure Sine Wave output produces a sine wave that is similar to normal AC wall power.

Comparison Table

COMPARISON TABLE

Model	Form Factor	Waveform	LCD	AVR	VA	Watt	Outlets	RJ11/45	USB	Software	SNMP/HTTP	Designed for
OR Series	Rack Mount	Simulated Sine Wave	v	v	600-1500	360-900	6	v	v	v	v	Home / SOHO / SMEs
PRT Series	Tower	Pure Sine Wave	v	v	750-3000	675-2700	6/8/9	-	v	v	v	Home / SOHO / SMEs
PR Series	RM/T	Pure Sine Wave	v	v	750-6000	500-4500	6/8/9/10	*	v	v	v	SMEs / Corporate / Industrial
OLS Series	RM/T, Tower	Pure Sine Wave	v	-	1000-10000	800-9000	4/5/6/8/9/ Terminal Block	v	v	v	v	SMEs / Corporate / Industrial
OL Series	RM/T, Tower	Pure Sine Wave	v	-	1000-10000	900-9000	3/6/8/9/10/ Terminal Block	v	v	v	v	SMEs / Corporate / Industrial

* = Select Models

MULTIFUNCTION LCD READOUT

**Multifunction LCD Readout****Compact display.**

Clear and consistent LCD readout of power/battery status including load, runtime, power and other information at a single push-of-a-button. Also, advanced setting can be configured to alert the potential power problems in advance.

**Detailed display.**

The rotatable LCD readout showcases clear and consistent information of power/battery status including load, runtime, power, AVR and other information at a single push-of-a-button. Also, advanced setting can be configured to alert the potential power problems in advance.

LCD Display Information Table

Load/Current Level	Runtime	Output Frequency*
AVR in Use*	Battery in Use	Input Voltage
Overload	Battery Level	Output Voltage
Silent Mode	Battery Shutdown Voltage*	Normal Operation
Static Frequency Tolerance*	Battery Pack Numbers*	Slew Rate*
Temperature (F and C)*		* = Select Models

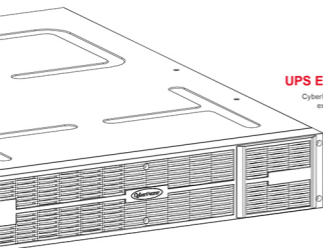
LCD DISPLAY INFORMATION TABLE

Convertible Rack/Tower Configuration

The Smart App UPS units can be mounted in either Tower or Rack Mount form to wisely utilize your workstation space the most. This configuration option is especially important for growing organizations with changing needs and requirements of maximum flexibility.

CONVERTIBLE RACK/TOWER CONFIGURATION

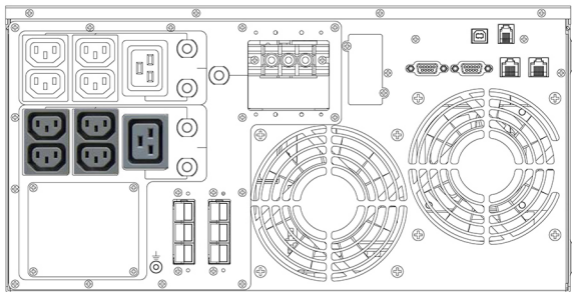




UPS Extended Runtimes (XL)

CyberPower extended runtime (XL) models feature convenient connectors that accept optional external battery packs for additional runtime. The external battery packs are easy to plug-in and can be "hot swapped" to ensure your business will remain uptime during normal UPS maintenance.

UPS EXTENDED RUNTIMES (XL)



Critical Load Outlets

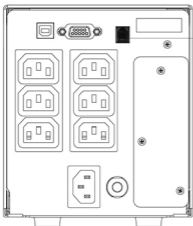
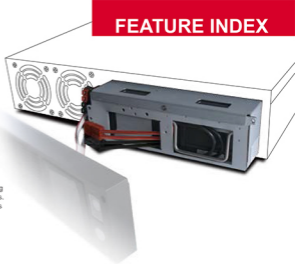
Critical load outlets enable the transfer of battery power can be reserved to specified outlets during power overload and administrator can easily prioritize and protect the most valuable equipment and data. Equipment connected to the critical load outlets will continue functioning on battery power when utility power is not adequate to power all connected equipment.

CRITICAL LOAD OUTLETS

HOT-SWAPPABLE, FRONT-LOAD BATTERIES

Hot-Swappable, Front-Load Batteries

When performing battery maintenance, the ability of remaining 100% uptime and availability of connected equipment is essential for all enterprises. The Smart App UPS features hot-swappable, front-loaded battery packs that are easy to install and ensure the uptime of connected equipment is maintained during normal battery maintenance. As long as utility power is present, the batteries can be hot-swapped without interrupting power to connected equipment. No special equipment is required for swapping batteries. Simply pull the front cover off and remove the internal battery pack holder with a Phillips screwdriver. Slide the front-loaded battery pack out of the UPS and install the new one back into the unit and secure.

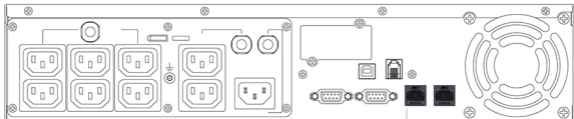


Emergency Power Off (EPO) Port

CyberPower UPS system with Emergency Power Off (EPO) port present the capability to immediately power down entire installed equipment from a single access point by activating a push button. EPO is an essential feature for many applications in industrial, telecommunications and IT industry for protection from water damage, excessive heat, security breaches, or catastrophic failures.

EPO

EMERGENCY POWER OFF (EPO) PORT



RJ11/RJ45 PROTECTION

RJ11/RJ45 Protection

The RJ11/RJ45 port is designed to protect data lines and communication equipment from AC transients caused by surge, electrostatic discharge and other power abnormalities.

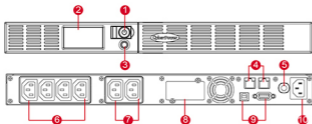
31 OFFICE RACKMOUNT SERIES



Hot-Swappable Battery

All Smart App UPS feature with hot-swappable battery which could be easily plugged or unplugged during normal battery maintenance without significant interruption to the UPS operation.

The Office Rackmount Series offers users from SMEs to corporate data centers clean and stable power supply with the featured RJ11/RJ45 port ensures phone, fax, and modem lines are protected from surges. With Automatic Voltage Regulation (AVR) stabilizes the AC signal and maintains a safe voltage, this allows the UPS to maintain safe power levels for the connected equipment without resorting to battery power. The optional SNMP/HTTP Remote Management Capability enables remote management and control of the system through standard web browser.



1. Power On/Off Switch
2. LCD Display
3. LCD Readout Toggle Button
4. Phone/Fax/Modem/DSL Network Protection Ports
5. Circuit Breaker Protection
6. Battery Backup and Surge Protection Outlets
7. Surge Protection Outlets
8. Expansion Port
9. Communication Port to PC (USB & Serial)
10. AC Input

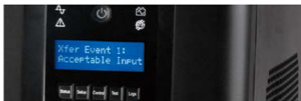
TECHNICAL SPECIFICATIONS

Model Name	OR1600ELCDRM1U	OR1600ELCDRM1U	OR1500ELCDRM1U
General			
UPS Topology		Line-Interactive	
Energy Saving		GreenPower UPS™ Bypass Technology	
Input			
Voltage		230Vac	
Input Voltage Range	175Vac - 255Vac		160Vac - 270Vac
Input Frequency Range		50/60Hz ± 3Hz (Auto-sensing)	
Rated Input current		10A	
Plug Type		IEC 320 C14	
Output			
VA	600	1000	1500
Watts	360	600	900
On Battery Waveform		Simulated Sine Wave	
On Battery Voltage		230Vac ± 10%	
Automatic Voltage Regulation (AVR)		Yes	
On Battery Frequency		50/60Hz ± 1%	
Outlets - Total		6	
Outlet Type		IEC 320 C13	
Outlets - Battery & Surge Protected		4	
Outlets - Surge-Only Protected		2	
USB Charging Ports		N/A	
Rated Power Factor		0.8	
Transfer Time (Typical)		4ms	
Battery			
Runtime at Half Load (min)	52	14	11
Runtime at Full Load (min)	4		3
Battery Type		Sealed Lead Acid	
Battery Size	6V/9AH	6V/7AH	6V/6AH
Battery Quantity	2	4	4
User Replaceable		Yes	
Hot-Swappable		Yes	
Typical Recharge Time		8 hours	
Replacement Battery	RBP0019	RBP0025	RBP0026
Burge Protection & Filtering			
Surge Suppression		1030 Joules	
Phone / Network Protection RJ11/RJ45		1-in, 1-out (Combo)	
Management & Communications			
LCD Control Panel		Yes	
HiD Compliant USB Port		Yes	
Serial Port		Yes	
LED Indicators		Power On, Wiring fault	
Audible Alarms		On Battery, Low Battery, Overload	
Software		PowerPanel® Business Edition	
SNMP / HTTP Remote Monitoring		Yes, with optional RMCARC002/203	
Physical			
Form Factor		Rack	
Physical Size			
Physical - UPS Module			
Dimensions (WxHxD) (mm.)	430 x 44 x 235	433 x 44 x 389	433 x 44 x 485
Weight (kg.)	8.1	16.1	19.4
Installed Rack Height		1U	
Environmental			
Operating Temperature		+ 32°F to 104°F / 0° C to 40° C	
Operating Humidity		0% - 90% non-condensing	
Operating Elevation		0-10000 feet (0-3000 meters)	
Storage Temperature		5°F to 113°F / -15°C to 45°C	
Storage Relative Humidity		0 - 95%	
Online Thermal Dissipation	20 BTU/hr	24 BTU/hr	24 BTU/hr

All specifications are subject to change without notice. ©2014 CyberPower Systems. All Trademarks are the property of their owners.

Detachable LCD Panel

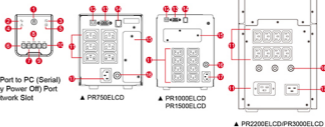
This unique feature can be removed and relocated the LCD panel up to 4.5 feet from the unit so that IT managers can easily access the UPS systems in data centers for quick and efficient power supply management, regardless of location.



The Professional Tower Series UPS provides advanced level of power protection to servers, telecom equipment, VOIP, internet working hardware and other mission-critical applications. Featuring Pure Sine Wave output and Automatic Voltage Regulation (AVR) stabilizes the AC signal and maintains a safe voltage, it allows the UPS to maintain safe power levels for the connected equipment without resorting to battery power. The optional SNMP/HTTP Remote Management Capability enables remote management and control of the system through standard web browser.

1. Power Switch/Power On Indicator
2. Online Indicator
3. On Battery Indicator
4. Fault
5. Replace Battery Indicator
6. Tab/Status Button
7. Enter/Setup Button
8. Up/Control Button
9. Down/Test Button
10. Esc/Logs Button
11. Battery and Surge Protected Outlets
12. Communication Port to PC (USB)

13. Communication Port to PC (Serial)
14. EPO (Emergency Power Off) Port
15. SNMP/HTTP Network Slot
16. Circuit Breaker
17. AC Input



TECHNICAL SPECIFICATIONS

Model Name	PR750ELCD	PR1000ELCD	PR1500ELCD	PR2200ELCD	PR3000ELCD
General					
UPS Topology	Line-Interactive				
Energy Saving	GreenPower UPS™ Bypass Technology				
Energy Star Qualified	Yes				
Active PFC Compatible	Yes				
Input					
Voltage	160Vac - 280Vac		230Vac		163Vac - 280Vac
Input Voltage Range	50.60Hz ± 3Hz (Auto-sensing)				
Input Frequency Range	50.60Hz ± 3Hz (Auto-sensing)				
Rated Input current	50A		50A		50A
Plug Type	IEC 320 C14		IEC 320 C13		IEC 320 C20
Output					
Vk	750	1000	1500	2200	3000
Watts	675	900	1350	1980	2700
On Battery Waveform	Pure Sine Wave				
On Battery Voltage	230Vac ± 5%				
Automatic Voltage Regulation (AVR)	Yes				
On Battery Frequency	50/60Hz ± 1%				
Overload Protection	On Utility: Circuit Breaker & Internal circuitry limiting / On Battery: Internal Current Limiting				
Outlets - Total	6	8	8	9	9
Outlet Type	IEC 320 C13		IEC 320 C13		(8) IEC 320 C13, (1) IEC 320 C19
Outlets - Battery & Surge Protected	6	8	8	9	9
Outlets - Surge-Only Protected	0				
Rated Power Factor	0.9				
Transfer Time	4ms				
Battery					
Runtime at Half Load (min)	12	14	17	27	13
Runtime at Full Load (min)	4	4	5	10	5
Battery Type	Sealed Lead Acid				
Battery Size	12V17AH	12V12AH	12V11AH	12V17AH	12V17AH
Battery Quantity	2		4		4
User Replaceable	Yes				
Hot-Swappable	Yes				
Typical Recharge Time	Quick Charge: 3 Hours, ECO Mode: 8 Hours				
Replacement Battery	RBP0014	RBP0065	RBP0023	RBP0024	RBP0024
Surge Protection & Filtering					
Surge Suppression	400 Joules				
Management & Communications					
LCD Control Panel	Yes				
Detachable LCD Control Panel Option	Yes				
HD Compliant USB Port	Yes				
Serial Port	Yes				
Emergency Power Off (EPO) Port	Yes				
LED Indicators	Power On, On Line, On Battery, Wiring fault, Replace Battery				
Audible Alarms	On Battery, Low Battery, Overload, Fault				
Software	PowerPanel® Business Edition				
SNMP / HTTP Remote Monitoring	Yes, with optional RBACARD202/203				
Physical					
Form Factor	Tower				
Physical Size					
Physical - UPS Module					
Dimensions (WxHxD) (mm.)	138 x 182 x 349	170 x 221 x 432	170 x 221 x 432	196 x 432 x 513	196 x 432 x 513
Weight (kg.)	12.3	18.9	25.1	52.6	55.5
Environmental					
Operating Temperature	32°F to 104°F / 0°C to 40°C				
Operating Humidity	0% - 90% non-condensing				
Operating Elevation	0-10000 feet (0-3000 meters)				
Storage Temperature	5°F to 113°F / -15°C to 45°C				
Storage Relative Humidity	0 - 95%				
Online Thermal Dissipation	75 BTU/hr	102 BTU/hr	113 BTU/hr	137 BTU/hr	205 BTU/hr

33 PROFESSIONAL RACKMOUNT SERIES



Pure Sine Wave

Pure Sine Wave output produces a true sine wave that is similar to normal AC wall power which ensures the continuous optimal operation. UPS with Pure Sine Wave are designed for electronics utilizing Active PFC power supplies or other devices which requires pure sine wave for proper function.

The Professional Rackmount Series UPS provides advanced level of power protection to servers, telecom equipment, VOIP, internet working hardware and other mission-critical applications. Featuring Pure Sine Wave output and Automatic Voltage Regulation (AVR) stabilizes the AC signal and maintains a safe voltage, it allows the UPS to maintain safe power levels for connected equipment without resorting to battery power. With the add-on advantage of Extended Runtime (XL) battery packs, the UPS backup time can be extended to maximize workflow flexibility. The placement-wise design can be configured in either Tower (T) or Rack Mount (RM) form with the attached stands and skids to make the most of your workspace.

TECHNICAL SPECIFICATIONS

Model Name	PR1500ELCORT1U	PR1000ELCORT1U	PR1000ELCORT2U	PR1500ELCORT2U	PR2200ELCORT2U	PR3000ELCORT2U
General						
UPS Topology	Line-Interactive					
Energy Saving	GreenPower UPS™ Bypass Technology					
Active PFC Compatible	Yes					
Input						
Voltage	220/230/240VAC					
Input Voltage Range	160VAC - 288VAC					
Input Frequency Range	50/60Hz ± 0.1Hz					
Rated Input Current	10A					16A
Plug Type	IEC 320 C14			IEC 320 C20		
VA	750	1000	1000	1500	2200	3000
Watts	500	670	700	1000	1600	2250
On Battery Waveform	Sine Wave					
On Battery Voltage	220/230/240VAC ± 5%					
Automatic Voltage Regulation (AVR)	Yes					
On Battery Frequency	50/60Hz ± 0.1%					
Overload Protection	On Utility: Circuit Breaker / On Battery: Internal Circuitry Limiting					
Outlets - Total	6		8		10	
Outlet Type	IEC 320 C13	IEC 320 C13	IEC 320 C13	IEC 320 C13	IEC 320 C13	(1) IEC320 C18, (9) IEC320 C13
Outlets - Battery & Surge Protected	6		8		10	
Outlets - Critical Load			2		4	
Outlets - Non-Critical Load (NCL)	4				6	
Transfer Time	4ms					
Battery						
Runtime at Half Load (min)	23	14	32	18	16	8
Runtime at Full Load (min)	7	5	11	6	6	3
Battery Type	Sealed Lead-Acid					
Battery Size	6V/9AH	6V/9AH	12V/7AH	12V/7AH	12V/9AH	12V/9AH
Battery Quantity	4	4	4	4	4	4
User Replaceable	Yes					
Hot-Swappable	Yes					
Typical Recharge Time	6 Hours					
Extended Battery Module						
Replacement Battery	RBP0027		RBP0030		RBP0037	RBP0040
Surge Protection & Filtering						
Surge Protection	S10 Joules					
Surge Suppression	Yes					
Phone Protection RJ11	-				Yes	
Phone / Network Protection RJ11/RJ45	-		1-in, 1-Out (Combo)			
Management & Communications						
LCD Control Panel	Yes					
HEC Compliant USB Port	Yes					
Serial Port	Yes					
Emergency Power Off (EPO) Port	Yes					
LED Indicators	Power On					
Audible Alarms	On Battery, Low Battery, Overload					
Software	PowerPanel® Business Edition					
SNMP / HTTP Remote Monitoring	Yes, with optional RMC-ARC002/003					
Physical						
Form Factor	Rack					
Physical Size						
Physical - UPS Module						
Dimensions (WxHxD) (mm.)	430 x 44 x 490		433 x 88 x 388		433 x 88 x 480	
Weight (kg.)	17.8	18	25.5	27	30	37
Installed Rack Height	1U				2U	
Environmental						
Operating Temperature	32 °F to 104 °F / 0 °C to 40 °C					
Operating Humidity	0% - 95% non-condensing					
Operating Elevation	0-10000 feet (0-3000 meters)					
Storage Temperature	5 °F to 113 °F / -15 °C to 45 °C					
Storage Relative Humidity	0 - 95%					
Online Thermal Dissipation	40 BTU/hr	72 BTU/hr	64 BTU/hr	139 BTU/hr	218 BTU/hr	337 BTU/hr

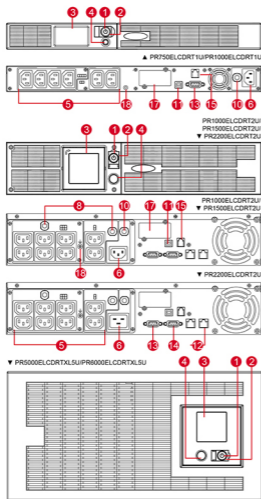
All specifications are subject to change without notice. ©2014 CyberPower Systems. All Trademarks are the property of their owners.



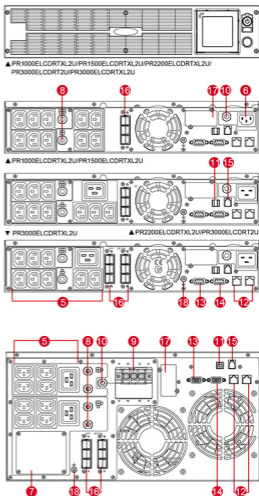
TECHNICAL SPECIFICATIONS

Model Name	PR100WELCDRTXL2U	PR150WELCDRTXL2U	PR220WELCDRTXL2U	PR300WELCDRTXL2U	PR500WELCDRTXL2U	PR600WELCDRTXL2U
General						
UPS Topology	Line-Interactive					
Energy Saving	GreenPower UPS™ Bypass Technology					
Active PFC Compatible	Yes					
Input						
Voltage	220/230/240Vac					
Input Voltage Range	160Vac – 288Vac					
Input Frequency Range	50/60Hz ± 0.1Hz					
Rated Input Current	10A		16A		32A	
Plug Type	IEC 320 C14		IEC 320 C20		Terminal Block	
Output						
VA	1000	1500	2200	3000	5000	6000
Watts	750	1125	1650	2400	4000	4500
On Battery Waveform	Sine Wave					
On Battery Voltage	220/230/240Vac ± 5%					
Automatic Voltage Regulation (AVR)	Yes					
On Battery Frequency	50/60Hz ± 0.1%					
Overload Protection	On Utility: Circuit Breaker / On Battery: Internal Circuitry Limiting					
Outlets - Total	10		9		11	
Outlet Type	IEC 320 C13	IEC 320 C13	(1) IEC320-C19, (9) IEC320 C13	(1) IEC320-C19, (8) IEC320 C13	(8) IEC 320 C13, (2) IEC 320 C19, (1) Terminal Block	(8) IEC 320 C13, (2) IEC 320 C19, (1) Terminal Block
Outlets - Battery & Surge Protected	10		9		11	
Outlets - Critical Load	4		3		6	
Outlets - Non-Critical Load (NCL)			6		5	
Transfer Time	4ms					
Battery						
Runtime at Half Load (min)	40	22	13	8	31	28
Runtime at Full Load (min)	18	8	5	3	12	10
Battery Type	Sealed Lead-Acid					
Battery Size	12V/5AH	12V/5AH	12V/5AH	12V/5AH	12V/5AH	12V/5AH
Battery Quantity	4	4	4	4	16	16
User Replaceable	Yes					
Hot-Swappable	Yes					
Typical Recharge Time	6 Hours					
Extended Battery Module	BPE4B75ART2U		RBP0040		BPL4B75ART2U	
Replacement Battery	BPE4B75ART2U		RBP0040		BPL4B75ART2U	
Burge Protection & Filtering						
Surge Suppression	810 Joules					
Phone Protection RJ11	Yes					
Phone / Network Protection RJ11/RJ45	1-in, 1-Out (Combo)					
Management & Communications						
LCD Control Panel	Yes					
HiD Compliant USB Port	Yes					
Serial Port	Yes					
Emergency Power Off (EPO) Port	Yes					
LED Indicators	Power On					
Audible Alarms	On Battery, Low Battery, Overload					
Software	PowerPanel® Business Edition					
SNMP / HTTP Remote Monitoring	Yes, with optional RMCARD202/203					
Physical						
Form Factor	Rack					
Physical Size						
Physical - UPS Module						
Dimensions (WxHxD) (mm.)	433 x 88 x 480		433 x 88 x 630		433 x 220 x 645	
Weight (kg.)	30.8	34.5	34.9	42	101.5	103.5
Installed Rack Height			2U		5U	
Environmental						
Operating Temperature	32 °F to 104 °F / 0 °C to 40 °C					
Operating Humidity	0% - 95% non-condensing					
Operating Elevation	0-10000 feet (0-3000 meters)					
Storage Temperature	5 °F to 113 °F / -15 °C to 45 °C					
Storage Relative Humidity	0 - 95%					
Online Thermal Dissipation	99 BTU/hr	170 BTU/hr	228 BTU/hr	385 BTU/hr	410 BTU/hr	490 BTU/hr

RAI specifications are subject to change without notice. ©2014 CyberPower Systems. All trademarks are the property of their owners.



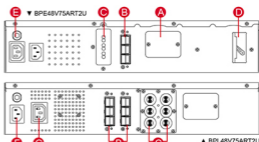
1. Power On/Off Switch
2. Power On Indicator
3. Multifunction LCD Readout
4. LCD Readout Toggle Button
5. Battery Backup, Surge Protected & AVR Protected Outlets (Critical/Non-Critical)
6. AC Inlet
7. Output Terminal Block
8. Output Circuit Breaker
9. Input Terminal Block
10. Input Circuit Breaker
11. USB Port to PC



12. Surge Protected Communication Ports - RJ11/RJ45
13. Serial Port/Serial Port I (Primary)
14. Serial Port II (Secondary)
15. EPD (Emergency Power Off) Port
16. Extended Runtime (XL) Battery Pack Connector
17. SMI/PIITP Network Slot
18. Ground Stud

EXTERNAL BATTERY PACKS

Model Name	BP48V7SART2U	BP48V7SART2U
General		
Voltage	220-240V	190-240V
Amperage	60A	100A
Battery		
Battery Type	Sealed Lead-Acid	
Battery Size	12V/9AH	
Battery Quantity	8	12
Typical Recharge Time	6 Hours	
Built-in Charger	Yes	
Expansion Ready (Daisy-chain)	Yes	
Physical		
Dimensions (WxHxD) (mm.)	433 x 88 x 483	433 x 88 x 630
Weight (kg.)	31.2	45.3
Environmental		
Operating Temperature	32 °F to 104 °F (0 °C to 40 °C)	
Operating Humidity	0% - 90% non-condensing	
Operating Elevation	0-10000 feet (0-3000 meters)	
Storage Temperature	5 °F to 113 °F / -15 °C to 45 °C	
Storage Relative Humidity	0% - 95% non-condensing	
Compatible Models		
Compatible Models	PR3000ELCDRT2U PR1000ELCDRTXL2U PR1500ELCDRTXL2U PR2200ELCDRTXL2U	PR2000ELCDRTXL2U PR5000ELCDRTXL2U PR8000ELCDRTXL2U



- A. On-board User-Replaceable Fuse Cover
 - B. External Battery Pack Input Socket
 - C. External Battery Pack Output Socket
 - D. DC Circuit Breaker*
 - E. AC Circuit Breaker
 - F. AC Output Outlet
 - G. AC Input Inlet
- * = Select Models





Online Double Conversion Topology

Online Double Conversion Topology provides extra layer insulation from power problems which is achieved by continuously operating off battery power and having zero transfer time during power outages. It also stabilizes output frequency and voltage, eliminates any line noise that may be apparent in industrial settings or when operating off generator power.

Featuring Online Double Conversion UPS topology, the Online S Series UPS provides the highest level of power protection and a guaranteed quality power supply to demanding businesses who value manageability and performance. Numerous engineering excellences include Economy Mode Setting, Smart Battery Management, and Generator Mode Setting, all to further enhance its overall capability. With its zero transfer time, the Online S Series ensures continuous, consistent and clean Pure Sine Wave power to all mission-critical equipment.

TECHNICAL SPECIFICATIONS

Model Name	OLS1000E	OLS1500E	OLS2000E	OLS3000E	OLS1000EKL	OLS1500EKL	OLS2000EKL	OLS3000EKL
General								
UPS Topology	Double-Conversion							
Energy Saving	ECO Mode Efficiency > 95%							
Active PFC Compatible	Yes							
Input								
Voltage	230Vac							
Input Voltage Range	160Vac - 300Vac		190Vac - 300Vac		160Vac - 300Vac		190Vac - 300Vac	
Input Frequency Range	40Hz - 70Hz							
Rated Input Current	10A		16A		15A		16A	
Input Power Factor	0.99							
Cold Start	Yes							
Plug Type	IEC C14		IEC C20		IEC C14		IEC C20	
Output								
VA	1000	1500	2000	3000	1000	1500	2000	3000
Watts	800	1200	1600	2400	800	1200	1600	2400
On Battery Waveform	Sine Wave							
On Battery Voltage	208, 220, 230, 240Vac (Configurable)							
On Battery Frequency	50/60Hz ± 0.5% (Auto-Sensing or Configurable)							
Overload Protection	AC Mode: Warning only @ 110% Load > 120%, Transfer to bypass after 50sec @ 120% Load > 110%, Transfer to bypass immediately @ Load > 120% Battery Mode: Warning only @ 110% Load > 105%, Shutdown after 10sec @ 120% Load > 110%, Shutdown immediately @ Load > 120% Bypass Mode: Warning only @ 130% Load > 105%, Shutdown immediately @ Load > 130%							
Outlets - Total	4	4	5	6	4	4	5	6
Outlet Type	IEC320 C13	IEC320 C13	(2+2) IEC320 C13, (1) Terminal Block	(1) IEC320 C18, (2+2) IEC320 C13, (1) Terminal Block	IEC320 C13	IEC320 C13	(2+2) IEC320 C13, (1) Terminal Block	(1) IEC320 C18, (2+2) IEC320 C13, (1) Terminal Block
Outlets - Battery & Surge Protected	4	4	5	6	4	4	5	6
Rated Power Factor	4	4	5	6	4	4	5	6
Harmonic Distortion	THD < 3% at Linear Load, < 5% at Non-linear Load							
Transfer Time	0ms							
Battery								
Runtime at Half Load (min)	16	14	16	5	14	Depends on external batteries		
Runtime at Full Load (min)	6	5	6	5	Depends on external batteries			
Battery Type	Sealed Lead-Acid							
Battery Size	12V7AH	12V9AH	12V7AH	12V9AH	12V7AH	12V9AH	12V7AH	12V9AH
Battery Quantity	3	3	3	6	3	3	3	6
User Replaceable	Yes							
Typical Recharge Time	5 Hours							
Smart Battery Management (SBM) Mode	Yes							
Extended Battery Module	BPSE36V45A		BPSE72V45A		BPSE36V45A		BPSE72V45A	
Surge Protection & Filtering								
Surge Suppression	440 Joules							
Phone Protection RJ11	Yes							
Phone / Network Protection RJ11/RJ45	1-in, 5-Out							
Management & Communications								
LCD Control Panel	Yes							
HiD Compliant USB Port	Yes							
Serial Port	Yes							
Emergency Power Off (EPO) Port	Yes							
Audible Alarms	Yes							
Software	PowerPanel® Business Edition							
SNMP / HTTP Remote Monitoring	Yes, with optional RMCARD302 / RMCARD303							
Physical								
Form Factor	Tower							
Physical Size								
Physical - UPS Module								
Dimensions (WxHxD) (mm.)	151 x 225 x 394		196 x 337 x 416		151 x 225 x 394		196 x 337 x 416	
Weight (kg.)	13.1	15.3	23.8	28.2	13.1	15.3	23.8	28.2
Installed Rack Height	-							
Physical - Power Module								
Dimensions (WxHxD) (mm.)	-							
Weight (kg.)	-							
Power Module Rack Height	7.7		7.8		12.2		12.6	
Physical - Battery Module								
Dimensions (WxHxD) (mm.)	151 x 225 x 394		196 x 337 x 416		151 x 225 x 394		196 x 337 x 416	
Weight (kg.)	17.2	17.2	34.2	34.2	17.2	17.2	34.2	34.2
Battery Module Rack Height	-							
Environmental								
Operating Temperature	32 °F to 104 °F / 0 °C to 40 °C							
Operating Humidity	20% - 80% non-condensing							
Operating Elevation	0-5000 feet (0-1500 meters)							
Storage Temperature	-4 °F to 122 °F / -20 °C to 50 °C							
Storage Relative Humidity	10% to 90%							
Online Thermal Dissipation	342 BTU/hr	420 BTU/hr	666 BTU/hr	1126 BTU/hr	342 BTU/hr	420 BTU/hr	666 BTU/hr	1126 BTU/hr

Ultimate Protection Online Double Conversion Topology

CyberPower Smart App Online S Systems provide continuous, consistent and clean Pure Sine Wave power to mission-critical equipment, regardless of the incoming power conditions.

Online Double Conversion Topology provides extra layer insulation from power problems which is achieved by continuously operating off battery power and having zero transfer time during power outages. It also stabilizes output frequency and voltage, eliminates any line noise that may be apparent in industrial settings or when operating off generator power.

Economy Mode Setting

The Economy Mode Setting increases the operating efficiency of UPS by up to 95% under ECO mode, while less BTU heat output and operating energy costs would be generated.

Generator Mode Setting*

By adopting the generator as an input power source, the Online Series can co-exist with household power generator, while ensuring the output power quality without sacrificing any protection.

Smart Battery Management (SBM)

Smart Battery Management (SBM) is an intelligent management procedure that can prevent the premature wear-out of the batteries. By charging the batteries in several phases with different current level, SBM can eliminate the over-charged situations in the long run. Furthermore, along with the temperature compensation technique, SBM dramatically reduces the deterioration of the battery capacity that caused by exhaust heat during the working cycle.

*Select Models

TECHNICAL SPECIFICATIONS

Model Name	OL5199ERTZU	OL5159ERTZU	OL5299ERTZU	OL5399ERTZU	OL5199ERTXZU	OL5159ERTXZU	OL5299ERTXZU	OL5399ERTXZU
General								
UPS Topology	Double-Conversion							
Energy Saving	ECO Mode Efficiency > 95%							
Active PFC Compatible	Yes							
Input								
Voltage	230Vac							
Input Voltage Range	160Vac - 300Vac		160Vac - 300Vac		160Vac - 300Vac		160Vac - 300Vac	
Input Frequency Range	40Hz - 70Hz							
Rated Input Current	10A		16A		10A		9A	
Input Power Factor	0.98							
Cold-Start	Yes							
Plug Type	IEC C14		IEC C20		IEC C14		IEC C20	
Output								
VA	1000	1500	2000	3000	1000	1500	2000	3000
Watts	800	1200	1600	2400	800	1200	1600	2400
On Battery Waveform	Sine Wave							
On Battery Voltage	208, 220, 230, 240Vac (Configurable)							
On Battery Frequency	50/60Hz ± 0.5% (Auto-Sensing or Configurable)							
Overload Protection	AC Mode: Warning only @ 110% Load-100%, Transfer to bypass after 60Sec @ 120% Load-110%, Transfer to bypass immediately @ Load-120% Battery Mode: Warning only @ 110% Load-100%, Shutdown after 10Sec @ 120% Load-110%, Shutdown immediately @ Load-120% Bypass Mode: Warning only @ 130% Load-100%, Shutdown immediately @ Load-130%							
Outlets - Total	6	6	8	8	6	6	8	8
Outlet Type	(3+) IEC320 C13	(3+) IEC320 C13	(4+) IEC320 C13	(1) IEC320 C19, (4+) IEC320 C13	(3+) IEC320 C13	(3+) IEC320 C13	(4+) IEC320 C13	(1) IEC320 C19, (4+) IEC320 C13
Outlets - Battery & Surge Protected	6	6	8	8	6	6	8	8
Outlets - Critical Load	6	6	8	8	6	6	8	8
Rated Power Factor	0.8							
Harmonic Distortion	THD < 3% at Linear Load, < 5% at Non-linear Load							
Transfer Time	0ms							
Battery								
Runtime at Half Load (min)	16	14	16	14	Depends on external batteries			
Runtime at Full Load (min)	6	5	6	5	Depends on external batteries			
Battery Type	Lead-Acid							
Battery Size	12V/7AH	12V/9AH	12V/17AH	12V/19AH	12V/7AH	12V/9AH	12V/17AH	12V/19AH
Battery Quantity	3	3	6	6	3	3	6	6
User Replaceable	Yes							
Typical Recharge Time	5 Hours							
Smart Battery Management (SBM) Mode	Yes							
Extended Battery Module	BPSE36V4SART2U		BPSE72V4SART2U		BPSE36V4SART2U		BPSE72V4SART2U	
Surge Protection & Filtering								
Surge Suppression	440 Joules							
Phone Protection RJ11	Yes							
Phone / Network Protection RJ11/RL45	1-in, 1-Out							
Management & Communications								
LCD Control Panel	Yes							
HiD Compliant USB Port	Yes							
Serial Port	Yes							
Emergency Power Off (EPO) Port	Yes							
Audible Alarms	Yes							
Software	PowerPanel® Business Edition							
SNMP / HTTP Remote Monitoring	Yes, with optional RMCARD302 / RMCARD303							
Physical								
Form Factor	Rack/Tower							
Physical - UPS Module								
Dimensions (WxHxD) (mm.)	438 x 88 x 430		438 x 88 x 610		438 x 88 x 430		438 x 88 x 610	
Weight (kg.)	13.2	14.6	21.2	27.6	8.4	8.5	11.6	12
Installed Rack Height	2U							
Physical - Power Module								
Dimensions (WxHxD) (mm.)	-							
Weight (kg.)	-							
Power Module Rack Height	2U							
Physical - Battery Module								
Dimensions (WxHxD) (mm.)	438 x 88 x 430		438 x 88 x 610		438 x 88 x 430		438 x 88 x 610	
Weight (kg.)	24.2	24.2	34.7	34.7	24.2	24.2	34.7	34.7
Battery Module Rack Height	2U							
Environmental								
Operating Temperature	32 °F to 104 °F / 0 °C to 40 °C							
Operating Humidity	20% - 90% non-condensing							
Operating Elevation	0-5000 feet (0-1500 meters)							
Storage Temperature	-4 °F to 122 °F / -20 °C to 50 °C							
Storage Relative Humidity	10% to 90%							
Online Thermal Dissipation	342 BTU/hr	420 BTU/hr	666 BTU/hr	1126 BTU/hr	342 BTU/hr	420 BTU/hr	666 BTU/hr	1126 BTU/hr

RAJ specifications are subject to change without notice. ©2014 CyberPower Systems. All Trademarks are the property of their owners.



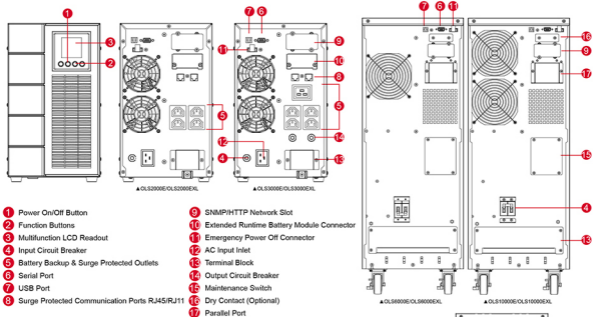
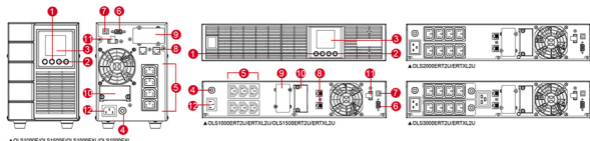
TECHNICAL SPECIFICATIONS

Model Name	OLS6000E	OLS6000EXL	OLS10000E	OLS10000EXL
General				
UPS Topology	Double-Conversion			
Energy Saving	ECO Mode Efficiency > 96%			
Active PFC Compatible	Yes			
Input				
Voltage	230Vac			
Input Voltage Range	176Vac - 276Vac			
Input Frequency Range	50/60Hz ± 10% (Auto-sensing)			
Rated Input Current	26.7A			44.5A
Input Power Factor	0.99			
Cold Start	Yes			
Plug Type	Terminal Block			
Output				
VA	6000			10000
Watts	5400			9000
On Battery Waveform	Sine Wave			
On Battery Voltage	208, 220, 230, 240Vac (Configurable)			
On Battery Frequency	50/60Hz ± 0.05%			
Overload Protection	AC Mode: Warning only @ 110%/Load-105%, Transfer to bypass after 10sec @ 120%/Load-110%, Transfer to bypass immediately @ Load-120% Battery Mode: Warning only @ 110%/Load-105%, Shutdown after 10sec @ 120%/Load-110%, Shutdown immediately @ Load-120% Bypass Mode: Warning only @ 130%/Load-105%, Shutdown immediately @ Load-130%			
Outlets - Total	1			
Outlet Type	Terminal Block			
Rated Power Factor	0.9			
Harmonic Distortion	THD < 2% at Linear Load, < 5% at Non-linear Load			
Transfer Time	0ms			
Battery				
Runtime at Half Load (min)	15	Depends on external batteries	11	Depends on external batteries
Runtime at Full Load (min)	5	Depends on external batteries	4	Depends on external batteries
Battery Type	Sealed Lead-Acid			
Battery Size	12V7AH	-	12V6.5AH	-
Battery Quantity	20	-	20	-
Typical Recharge Time	7 Hours	Depends on external batteries	7 Hours	Depends on external batteries
Smart Battery Management (SBM) Mode	Yes			
Extended Battery Module	BPSE24V4TA			
Management & Communications				
LCD Control Panel	Yes			
HD Compliant USB Port	Yes			
Serial Port	Yes			
Emergency Power Off (EPO) Port	Yes			
LED Indicators	Yes			
Audible Alarms	Yes			
Software	PowerPanel® Business Edition			
SNMP / HTTP Remote Monitoring	Yes, with optional RMCARD302 / RMCARD303			
Physical				
Form Factor	Tower			
Physical Size				
Physical - UPS Module				
Dimensions (WxHxD) (mm.)		25	550 x 708 x 200	86
Weight (kg.)	70			28
Environmental				
Operating Temperature	32 °F to 104 °F / 0 °C to 40 °C			
Operating Humidity	0% - 90% non-condensing			
Operating Elevation	0-3281 feet (0-1000 meters)			
Storage Temperature	5 °F to 113 °F / -15 °C to 45 °C			
Storage Relative Humidity	0% - 95% non-condensing			
Online Thermal Dissipation	1603 BTU/hr	1603 BTU/hr	2672 BTU/hr	2672 BTU/hr

RAI specifications are subject to change without notice. ©2014 CyberPower Systems. All Trademarks are the property of their owners

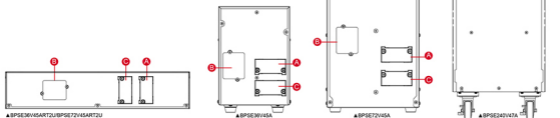
EXTERNAL BATTERY PACKS

Model Name	BPSE24V4RT2U	BPSE24V4RT2U	BPSE24V4TA	BPSE24V4TA	BPSE24V4TA	
General						
Voltage	36V	72V	36V	72V	24V	
Amperage	40A	40A	40A	40A	25A(8K) / 42A(10K)	
Battery						
Battery Type	Sealed Lead-Acid					
Battery Size	12V7AH					
Battery Quantity	6	12	6	12	20	
User Replaceable	Yes					
Hot-Swappable	Yes					
Typical Recharge Time	Depends on external charger					
Expansion Ready (Daisy-chain)	Yes - Power plugs for Module					
Replacement Battery Pack	RBPO066	RBPO071				
Replacement Battery Pack Quantity	1	1				
Physical						
Dimensions (WxHxD) (mm.)	438 x 88 x 430	438 x 88 x 610	151 x 225 x 294	106 x 337 x 416	280 x 718 x 550	
Weight (kg.)	24.2	34.7	17.2	34.2	105	
Environmental						
Operating Temperature	32 °F to 104 °F / 0 °C to 40 °C					
Operating Humidity	0% - 90% non-condensing					
Operating Elevation	0-5000 feet (0-1500 meters)					
Storage Temperature	-4 °F to 104 °F / -20 °C to 40 °C					
Storage Relative Humidity	0% - 90% non-condensing					
Compatible Models						
Compatible Models	OLS1000ERT2U, OLS1500ERT2U, OLS1000ERTXL2U, OLS1500ERTXL2U	OLS2000ERT2U, OLS3000ERT2U, OLS2000ERTXL2U, OLS3000ERTXL2U	OLS1900E, OLS1800E, OLS1000EXL, OLS1500EXL	OLS2000E, OLS3000E, OLS2000EXL, OLS3000EXL	OLS6000EXL, OLS10000EXL	



External Battery Packs

- A Input Connector
B On-board Replaceable Fuse Cover
C Output Connector
D Output Terminal Block
E Input Terminal Block





Online Double Conversion Topology

Online Double Conversion Topology provides extra layer insulation from power problems which is achieved by continuously operating off battery power and having zero transfer time during power outages. It also stabilizes output frequency and voltage, eliminates any line noise that may be apparent in industrial settings or when operating off generator power.

Featuring Online Double Conversion UPS topology, the Online Series UPS provides the highest level of power protection and a guaranteed quality power supply to demanding businesses who value manageability and performance. Numerous engineering excellences include an Economy Mode Setting, Hot-Standby, and Generator Mode Setting, all to further enhance its overall capability. With its zero transfer time, the Online Series ensures continuous, consistent and clean Pure Sine Wave power to all mission-critical equipment.

Smart Fan Speed Control by Load Level

System will automatically adjust the fan speed by monitoring the current operation status including the load level, operating temperature and others which enable safe, stable and more energy-saving operation.

Economy Mode Setting

The Economy Mode Setting increases the operating efficiency of UPS by up to 95% under ECO mode, while less BTU heat output and operating energy costs will be generated.

TECHNICAL SPECIFICATIONS

Model Name	OL1000ERTL2U	OL1500ERTL2U	OL2000ERTL2U	OL3000ERTL2U	OL1000EXL	OL1500EXL	OL2000EXL	OL3000EXL
General								
UPS Topology	Double-Conversion							
Energy Saving	ECO Mode Efficiency >93%							
Active PFC Compatible	Yes							
Input								
Voltage	200 - 240Vac							
Input Voltage Range	120Vac - 139Vac for 0 - 60% Load, 140Vac - 159Vac for 0 - 70% Load, 160Vac - 179Vac for 0 - 80% Load, 180Vac - 199Vac for 0 - 90% Load, 190Vac - 300Vac for 0 - 100% Load							
Input Frequency Range	50/60Hz ± 10% (Auto-sensing)							
Rated Input Current	5A	7.5A	10A	15A	5A	7.5A	10A	15A
Input Power Factor	0.99							
Cold Start	Yes							
Plug Type	IEC C14		IEC C20		IEC C14		IEC C20	
Cord Length (in)	1.8		3		1.8		3	
Output								
V _A	1000	1500	2000	3000	1000	1500	2000	3000
Watts	900	1350	1800	2700	900	1350	1800	2700
On Battery Waveform	Sine Wave							
On Battery Voltage	200, 208, 220, 230, 240Vac (Configurable) ± 2%							
On Battery Frequency	50/60Hz (auto-sensing or configurable) ± 0.25Hz							
Overload Protection	Line Mode: 105-125% Load for 1 min, 126-150% Load for 10 sec; Battery Mode: 105-130% Load for 10 sec, 131-150% Load for 2 sec							
Outlets - Total	8							
Outlet Type	(8) IEC320 C13		(1) IEC320 C19, (8) IEC320 C13		(8) IEC320 C13		(1) IEC320 C18, (8) IEC320 C13	
Outlets - Battery & Surge Protected	8							
Outlets - Critical Load	4		5		6		5	
Outlets - Non-Critical Load (NCL)	4		4		3		4	
Rated Power Factor	0.9							
Harmonic Distortion	THD < 3% at Linear Load, < 5% at Non-linear Load							
Transfer Time	0ms							
Battery								
Runtime at Half Load (min)	18	9	15	9	14	9	14	9
Runtime at Full Load (min)	6	3	6	3	4	3	4	3
Battery Type	Sealed Lead-Acid							
Battery Size	12V9AH		12V17AH		12V9AH		12V17AH	
Battery Quantity	3		6		3		6	
User Replaceable	Yes							
Hot-Swappable	Yes							
Typical Recharge Time	5 Hours							
Smart Battery Management (SBM) Mode	Yes							
Extended Battery Module	BPE36V80ART2US		BPE72V80ART2US		BPE36V80AS		BPE72V80AS	
Replacement Battery	RBP0074		RBP0076		RBP0075		RBP0074	
Surge Protection & Filtering	1,780 Joules							
Surge Suppression	1,335 Joules							
Phone / Network Protection RJ11/RJ45	1,780 Joules		1,335 Joules		1-in, 1-Out (Combo)		1,335 Joules	
Management & Communications								
LCD Control Panel					Yes			
Detachable LCD Control Panel Option					Yes (Requires a separate DB25 Cable)			
HID Compliant USB Port					Yes			
Serial Port					Yes			
Emergency Power Off (EPO) Port					Yes			
Dry Contacts					Yes (Configurable: 0/P Power Fail [Battery Low] [Summary Alarm] [UPS On Bypass] [UPS Fail])			
LED Indicators					Power On (White), Line Mode (Green), Battery Mode (Yellow), Bypass Mode (Yellow), Fault (Red), Replace Battery (Red)			
Audible Alarms					Battery Mode, Battery Low, Overload, UPS Fault, Replace Battery			
Software					PowerPanel® Business Edition			
SNMP / HTTP Remote Monitoring					Yes, with optional RMCARD302 / RMCARD303			
Physical								
Form Factor	Rack/Tower				Tower			
Physical Size								
Dimensions (WxHxD) (mm.)	433 x 88 x 430		433 x 88 x 600		587 x 232 x 397		212 x 338 x 410	
Weight (kg.)	18		32		16		32	
Installed Rack Height	2U							
Environmental								
Operating Temperature					32 °F to 104 °F / 0 °C to 40 °C			
Operating Humidity					0% - 90% non-condensing			
Operating Elevation					0-10000 feet (0-3000 meters)			
Storage Temperature					5 °F to 113 °F / -15 °C to 45 °C			
Storage Relative Humidity					0% - 95% non-condensing			
On-line Thermal Dissipation	341 BTU/hr	512 BTU/hr	759 BTU/hr	1139 BTU/hr	341 BTU/hr	512 BTU/hr	759 BTU/hr	1139 BTU/hr

Smart Battery Management (SBM)

Smart Battery Management (SBM) is an intelligent management procedure that can prevent the premature wear-out of the batteries. By charging the batteries in several phases with different current level, SBM can eliminate the over-charged situations in the long run. Furthermore, along with the temperature compensation technique, SBM dramatically reduces the deterioration of the battery capacity that caused by exhaust heat during the working cycle.

Dual Input

The Online Series equipped with dual AC input (or known as "Hot-Standby") ensures the UPS with more availability. The feature allows the secondary source of AC input as the backup supply when the major input source is down. Together with dual UPS application, it can ensure a high-quality output power even under bypass mode.

Online Output Voltage Setting

The Online Series provides real-time adjustable output voltage level that allows more flexibility in different application scenarios. Users can select from 200V, 208V, 220V, 230V and 240V simply by few button clicks of the control panel.

Generator Mode Setting

By adopting the generator as an input power source, the Online Series can co-exist with household power generator, while ensuring the output power quality without sacrificing any protection.

Detachable PDU*

For seamless and efficient maintenance or replacement, the models with detachable PDU is available to allow the engineer to configure, repair or replace the UPS unit more easily without shutting down the connected servers.

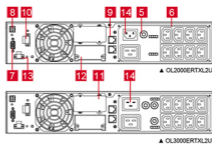
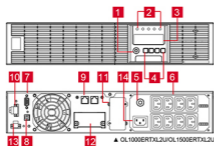
TECHNICAL SPECIFICATIONS

Model Name	OL6000ERT3UD	OL6000ERT3UDM	OL8000ERT3UD	OL8000ERT3UDM	OL10000ERT3UD	OL10000ERT3UDM	OL6000E	OL8000E	OL10000E	
General										
UPS Topology	Double-Conversion									
Energy Saving	ECO Mode Efficiency >95%									
Energy Star Qualified	Yes									
Active PFC Compatible	Yes									
Input										
Voltage	200 - 240Vac									
Input Voltage Range	120Vac - 133Vac for 0 - 25% Load, 140Vac - 159Vac for 0 - 50% Load, 160Vac - 179Vac for 0 - 75% Load, 180Vac - 280Vac for 0 - 100% Load									
Input Frequency Range	50/60Hz ±10Hz (Auto-sensing)									
Rated Input Current	35A		45A		55A		30A	45A	50A	
Input Power Factor	0.99									
Cold Start	Yes									
Plug Type	Terminal Block									
Output										
VA	6000		8000		10000		6000		8000	10000
Watts	5400		7200		9000		5400		7200	9000
On Battery Waveform										
On Battery Voltage	200, 208, 220, 230, 240Vac (Configurable) ±2%									
On Battery Frequency	50/60Hz (Auto-sensing or configurable) ±0.25Hz									
Overload Protection	Line Mode: 105-125% Load for 1 min, 126-150% Load for 10 sec; Battery Mode: 105-130% Load for 10 sec, 131-150% Load for 2 sec									
Outlets - Total	4	1	4	1	4	1			11	
Outlet Type	(1) IEC320 C19, (2) IEC320 C13, (1) Terminal Block	Terminal Block	(1) IEC320 C19, (2) IEC320 C13, (1) Terminal Block	Terminal Block	(1) IEC320 C19, (2) IEC320 C13, (1) Terminal Block	Terminal Block	(2) IEC320 C19, (8) IEC320 C13, (1) Terminal Block			
Outlets - Battery & Surge Protected	4	1	4	1	4	1			11	
Outlets - Critical Load	2	1	2	1	2	1			6	
Outlets - Non-Critical Load (NCL)	2	0	2	0	2	0			5	
Rated Power Factor	0.9									
Harmonic Distortion	THD < 3% at Linear Load, < 5% at Non-linear Load									
Transfer Time	0ms									
Battery										
Runtime at Half Load (min)	15.8	15.8	13.5	13.5	12.5	12.5	15.8	13.5	12.5	
Runtime at Full Load (min)	5.3	5.3	5.5	5.5	4.3	4.3	5.3	5.5	4.3	
Battery Type	Sealed Lead-Acid									
Battery Size	12V17AH				12V9AH		12V17AH		12V9AH	
Battery Quantity	20									
User Replaceable	Yes									
Hot-Swappable	Yes									
Typical Recharge Time	4 Hours				5 Hours		4 Hours		5 Hours	
Smart Battery Management (SBM) Mode	Yes									
Extended Battery Module	BPE24V30ART3UG				BPE24V30ART3UG				BPE24V30AS	
Replacement Battery	RBP0073				RBP0072		RBP0073		RBP0072	
Surge Protection & Filtering										
Surge Suppression	2,430 Joules									
Phone / Network Protection RJ15RJ45	1-in, 1-out (Combo)									
Management & Consoles										
LCD Control Panel	Yes									
Detachable LCD Control Panel Option	Yes (Requires a separate DB26 Cable)									
HID Compliant USB Port	Yes									
Serial Port	Yes									
Emergency Power Off (EPO) Port	Yes									
Dry Contact	Yes (Configurable, 3P Power Fail [Battery Low], Summary Alarm [UPS on Bypass], [UPS Fail])									
LED Indicators	Power On (White), Line Mode (Green), Battery Mode (Yellow), Bypass Mode (Yellow), Fault (Red), Replace Battery (Red)									
audible Alarms	Battery Mode, Battery Low, Overload, UPS Fault, Replace Battery									
Software	PowerPanel® Business Edition									
SNMP / HTTP Remote Monitoring	Yes, with optional RMCARD302 / RMCARD303									
Physical										
Form Factor	Rack/Tower								Tower	
Physical - UPS Module										
Dimensions (WxHxD) (mm.)	433 x 264 x 660						265 x 600 x 660			
Weight (kg.)	100				102		96		97	
Installed Rack Height	6U									
Physical - Power Module										
Dimensions (WxHxD) (mm.)	433 x 132 x 660									
Weight (kg.)	24									
Installed Rack Height	3U									
Physical - Battery Module										
Dimensions (WxHxD) (mm.)	433 x 132 x 660									
Weight (kg.)	76				78					
Installed Rack Height	3U									
Environmental										
Operating Temperature	32°F to 104°F (0°C to 40°C)									
Operating Humidity	0% - 95% non-condensing									
Operating Elevation	0-10000 feet (0-3000 meters)									
Storage Temperature	5°F to 113°F / -15°C to 45°C									
Storage Relative Humidity	0% - 95% non-condensing									
Online Thermal Dissipation	1623 BTU/hr		2430 BTU/hr		3036 BTU/hr		1623 BTU/hr		2430 BTU/hr	3036 BTU/hr

*All specifications are subject to change without notice. ©2014 CyberPower Systems. All Trademarks are the property of their owners.

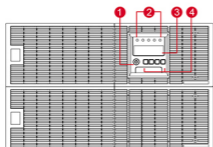
Rackmount Model

▼OL1/1.5/2/3K Model

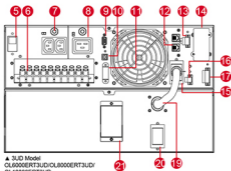


Rackmount Model

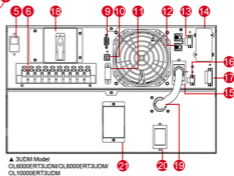
▼OL6/8/10K Model



- 1 Power Button/Power On Indicator
- 2 UPS Status/Fault/Replace Battery LED Indicator
- 3 Multifunction LCD Readout
- 4 Function Buttons
- 5 Input Circuit Breaker
- 6 Input/Output Terminal Block
- 7 Output Circuit Breaker
- 8 Battery Backup & Surge Protected Outlets
- 9 Serial Port
- 10 USB Port
- 11 Remote Control Port
- 12 Surge Protected Communication Ports-RJ11/RJ45
- 13 Relay Output Connector
- 14 SNMP/HTTP Network Slot
- 15 Extended Runtime Battery Pack Connector
- 16 EPO (Emergency Power Off) Connector
- 17 Backfeed Protection Connector
- 18 Maintenance Bypass Switch
- 19 DC Output Cable
- 20 DC Input Connector
- 21 On-board Replaceable Fuse Cover



* Input Circuit Breaker for 6000V/A units in 3UD/3UDM model.

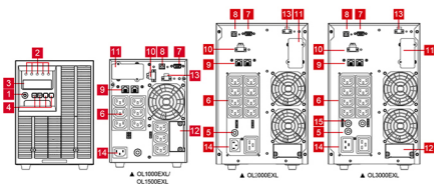


EXTERNAL BATTERY PACKS

Model Name	BPE30V6ART2US	BPE72V6ART2US	BPE36V9AS	BPE72V9AS	BPE240V30ART3US	BPE240V50ART3US	BPE240V9AS
General							
Voltage	36V	72V	36V	72V	30A	240V	
Amperage			60A			90A	30A
Battery							
Battery Type	Sealed Lead-Acid						
Battery Size		12V9AH		12V7AH		12V9AH	12V7AH
Battery Quantity	6	12	6	12		20	40
User Replaceable		Yes		-		Yes	-
Hot-Swappable		Yes		-		Yes	-
Expansion Ready (Daisy-chain)	Yes - Power plugs for Module						
Replacement Battery Pack	RBP0074	RBP0077		-	RBP0073	RBP0072	-
Replacement Battery Pack Quantity		2				2	
Physical							
Dimensions (WxHxD) (mm.)	433 x 88 x 430	433 x 88 x 600	167 x 232 x 307	212 x 336 x 414		433 x 132 x 660	265 x 600 x 600
Weight (kg.)	23	44	23.5	43.5		76	135
Environmental							
Operating Temperature	32 °F to 104 °F / 0 °C to 40 °C						
Operating Humidity	0% - 90% non-condensing						
Operating Elevation	0-10000 feet (0-3000 meters)						
Storage Temperature	5 °F to 113 °F / -15 °C to 45 °C						
Storage Relative Humidity	0% - 95% non-condensing						
Compatible Models							
Compatible Models	OL1000ERTXL2U; OL1500ERTXL2U	OL2000ERTXL2U; OL3000ERTXL2U	OL1000EXL; OL1500EXL	OL2000EXL; OL3000EXL	OL6000ERT3UD; OL8000ERT3UDM	OL8000ERT3UD; OL10000ERT3UD; OL10000ERT3UDM	OL6000E; OL8000E; OL10000E

Tower Model

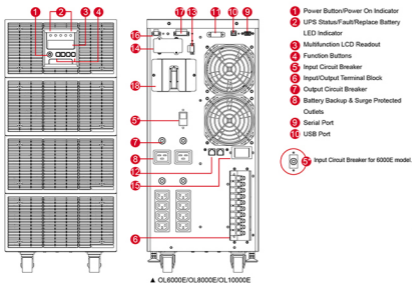
▼ OL1/1.5/2/3K Model



- 1 Power Button/Power On Indicator
- 2 UPS Status/Fault/Replace Battery LED Indicator
- 3 Multifunction LCD Readout
- 4 Function Buttons
- 5 Input Circuit Breaker
- 6 Battery Backup & Surge Protected Outlets
- 7 Serial Port
- 8 USB Port
- 9 Surge Protected Communication Ports- RJ11/RJ45
- 10 Relay Output Connector
- 11 SNMP/HTTP Network Slot
- 12 Extended Runtime Battery Pack Connector
- 13 EPO (Emergency Power Off) Connector
- 14 AC Input Inlet

Tower Model

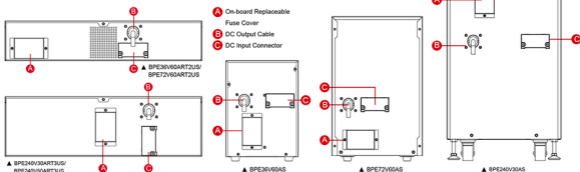
▼ OL6/8/10K Model



- 1 Power Button/Power On Indicator
- 2 UPS Status/Fault/Replace Battery LED Indicator
- 3 Multifunction LCD Readout
- 4 Function Buttons
- 5 Input Circuit Breaker
- 6 Input/Output Terminal Block
- 7 Battery Backup & Surge Protected Outlets
- 8 Serial Port
- 9 USB Port
- 10 Remote Control Port
- 11 Surge Protected Communication Ports- RJ11/RJ45
- 12 Relay Output Connector
- 13 SNMP/HTTP Network Slot
- 14 Extended Runtime Battery Pack Connector
- 15 EPO (Emergency Power Off) Connector
- 16 Backfeed Protection Connector
- 17 Maintenance Bypass Switch

5 Input Circuit Breaker for 6000E model.

External Battery Packs



- A On-board Replaceable Fuse Cover
- B DC Output Cable
- C DC Input Connector

Alternating Current (AC)

The direction of an electric charge that is flowing in a circuit is constantly being reversed back and forth.

Amp (ampere, A)

The standard unit of measure for electrical current, defined as the amount of electrical flow equal to one coulomb per second.

Apparent Power

The product of the applied voltage and current in an AC circuit.

Blackout

A power failure in which line voltage drops to zero.

Brownout

A drop in voltage in electrical power supply.

Buck/Boost

Full automatic voltage regulation in a UPS stabilizes low voltage (boost) and high voltage (buck) to maintain nominal voltage, without resorting to battery power when minor power fluctuations occur.

Coaxial Cable

Cables that are made of an inner conductor surrounded by an insulator and a shield that are generally used for TV antennas, satellite dishes, cable modems and certain computer networking applications.

Current

The flow of electric charge, measured in amps.

DHCP

Dynamic Host Configuration Protocol (DHCP), automatically assigns an IP address to a device on a network.

Direct Current (DC)

The unidirectional flow of a electric charge.

Double-Conversion UPS

This high-end UPS system converts incoming utility AC power into DC power and then back into AC power, charging connected devices with the UPS battery. The isolated process ensures clean and stable output voltage and zero transfer time. This UPS system is ideal for equipment sensitive to power fluctuations such as corporate data centers, servers, and network and storage devices.

Efficiency (Energy Conversion Efficiency)

The ratio between the amount of apparent power and the amount of true power used by an electrical device. The closer the true power value is to the apparent power, the more efficient the device.

Electromagnetic Interference (EMI)

Commonly referred to as line noise, these interference signals can disrupt or degrade the performance of a circuit by inserting abnormalities into the system. Also referred to as radio frequency interference (RFI) when in high or radio frequency.

Frequency

The number of cycles in a given time period, which is measured in Hertz.

Ground

An electrical system connection that serves as a conduit between the circuit and earth.

Half-Load

The midpoint in the maximum load capacity for a UPS.

Hard-wired

High amperage devices that require installation by a qualified electrician to be directly wired-in, instead of simply being plugged in to an outlet.

Hertz (Hz)

The unit for frequency, defined as the number of cycles per second.

Hot-Swappable Battery

A term used to describe the functions of replacing a UPS battery without shutting down the unit.

Joule

A measure of electrical energy — one joule is defined as the energy needed to pass one ampere of current through one ohm of resistance.

Line-Interactive UPS

Functions the same as a standby UPS, with the additional feature of some voltage regulation built in. It switches to battery power when voltage drops too low, just as a standby UPS does, however if the voltage only drops slightly, a line-interactive UPS corrects this without using battery power. The functionality of these mid- to high-grade units falls between standby and online UPS units.

Load

The amount of power consumed by an electrical device on a circuit. Load capacity is a critical factor in selecting a UPS or surge protector.

MOV

Metal Oxide Varistor is an electronic component that is used to protect circuits against excessive, short-lived, voltages.

Nominal Voltage

The standard voltage for a circuit or system. Common nominal voltages in the U.S. include 120VAC, 208VAC and 240VAC; while nominal voltage in the EU is 230VAC.

Overvoltage

This occurs when incoming voltage is higher than normal but not high enough to be classified as a surge.

Power Factor (PF)

The ratio of real power (watts) to apparent power (VA), expressed as a number between 0 and 1. Watts divided by VA = Power Factor

Power Factor Correction

Controls the incoming power to a power supply in order to bring the power factor as close to unity power as possible.

Radio Frequency Interference (RFI)

See Electromagnetic Interference.

Real Power

The amount of power being drawn by a system, measured in watts. Real power is a function of VA (apparent power) and the power factor.

RJ11, RJ14, RJ45

The abbreviation of registered jack (RJ) – RJ11 is for standard phone lines, RJ14 is for multiple phone lines and RJ45 is for Ethernet.

Runtime

The maximum period of time battery power is output from a UPS to its connected devices during a power interruption. Runtime is dependent upon the total load of all connected equipment.

Simulated Sine Wave

A modified or approximated sine wave AC power output. Simulated (or nonsinusoidal) waveforms may also be referred to as a squared sine wave, modified sine wave, trapezoidal sine wave or quasi sine wave.

Sine Wave

A smooth, repetitive oscillation of AC power.

Single Phase Power

Refers to the distribution of alternating current electric power using a system in which all the voltages of the supply vary in unison.

SMTP

Simple Mail Transfer Protocol is the standard for e-mail transmission on the Internet.

SNMP

Simple Network Management Protocol is a commonly used protocol for devices to communicate over a network.

Spike

A spike is a sudden, brief power surge, usually lasting less than 1ms.

Standby UPS

A UPS that passes utility power straight through to the output when conditions are stable, but switches to battery power when utility voltage drops below an acceptable level.

Surge

Periods when line voltage increases dramatically, typically lasting longer than 1ms, but less than a few seconds, though they can last longer.

Total Harmonic Distortion (THD)

A calculated measure of the reduction in sine wave clarity caused by stray wave frequencies.

Thermal Dissipation

The process of dissipating heat from an electrical system via air or liquid cooling; also a term for the amount of heat a device can emit.

Transfer Time

The time it takes UPS to switch from AC power to battery power.

Transformer

A device that converts AC line voltage to a higher or lower value.

U

The standard unit of measure for rack-mounted equipment. A device measuring 1U is 1.75 inches (44.45mm) high, 2U is 3.50 inches (88.9mm), etc.

Undervoltage

Related to both brownout and voltage sag, undervoltage falls between these two, occurring when voltage is lower than normal for an extended period of time without recovering, but not too low that the electronic device will not function.

USB (HID Compliant)

Universal Serial Bus devices are used to connect various components to a computer. An HID (Human Interface Device) compliant USB follows a specific protocol for communication that allows it to be used with virtually any system.

Volt (V)

The difference in electric potential between two points when one amp of current dissipates one watt of power.

Volt-Ampere (VA)

The unit used to express apparent power.

Voltage Regulator

A device or component that normalizes voltage to a certain standard when it is fluctuating.

Watt (W)

A unit of measure for true power consumption.

Waveform

Is a representation (or form) of how alternating current (AC) varies with time. Common waveform representations include sine wave, square wave and trapezoidal wave. An instrument called an oscilloscope can be used to visually represent a wave as a repeating image on a screen.

Wiring-Fault

Refers to an abnormal flow of current that is due to an improperly grounded electrical outlet.

