



UPS SYSTEMS | PDUs | SURGE PROTECTORS | POWER INVERTERS



## Power Inverter

Featuring high-efficiency conversion design, CyberPower Power Inverter ensures home/office users the always-on power supply and longer backup with exceptional power performance comes at a comfortable pricing.



### APPLICATIONS

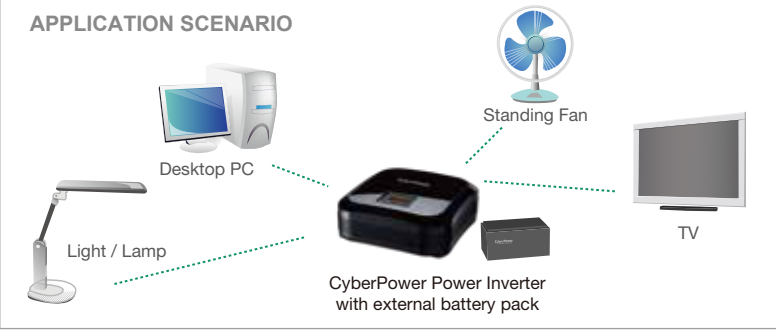
- Home and Home Office
- Small Office
- Home Theater System

### SERIES FEATURES

- Automatic Switch-Over
- LCD Status Display\*
- Built-in Intelligent Charger
- Horizontal/Wall-Mounted Use (Optional)
- LED Status Indicators\*
- Overload Protection
- Auto-Restart/Auto-Charge

\*= Select Models

### APPLICATION SCENARIO



### TECHNICAL SPECIFICATIONS

Model	CPS650EI	CPS850EI	CPS1000EI	CPS2000EI	CPS1200EILCD	CPS2200EILCD	CPS3000EILCD
<b>Configuration</b>							
Capacity (VA / Watts)	650 / 330	850 / 470	1000 / 600	2000 / 1200	1200 / 720	2200 / 1320	3000/1800
<b>Input</b>							
Voltage Range	Wide mode: 100VAC-280VAC; Narrow mode: 190VAC-260VAC						
Frequency Range	50Hz			50/60Hz			
<b>Output</b>							
Number of Phase	1 $\phi$						
On Battery Output Voltage	Simulated Sine Wave at 220Vac +/-5%		Simulated Sine Wave at 220Vac +/-10%				
On Battery Output Frequency	50Hz +/-1%		50 / 60Hz				
Overload Protection	On utility: Internal Current Limiting & Circuit Breaker or Fuse; On battery: Internal Current Limiting		On Utility: Circuit Breaker; On Battery: Internal Current Limiting				
Transfer Time (Typical)	4ms		20ms				
Output Receptacles**	(1) IN or (1) UN		(1) Schuko or (1) UK or (1) FR or (1) IN or (1) UN				(1) Terminal Block
<b>Physical</b>							
Maximum Dimensions (W x H x D) (mm)	205 x 146 x 113		250 x 90 x 265				240 x 100.5 x 280
Weight (kg)	4	4.5	1.9	2	2.05	2.2	4.5
<b>Battery</b>							
Lead Acid Battery	12VDC	12VDC	12VDC	24VDC	12VDC	24VDC	24VDC
Charging Voltage	13.7 $\pm$ 0.2VDC	13.7 $\pm$ 0.2VDC	13.7 $\pm$ 0.2VDC	27.4 $\pm$ 0.2VDC	13.7 $\pm$ 0.2VDC	27.4 $\pm$ 0.2VDC	27.4 $\pm$ 0.2VDC
Charging Current	15A		10A				20A
<b>Status Indicators</b>							
Indicators	Power On, AVR Mode, Overload		AC Mode, Battery Mode, Fault		Multifunction LCD Display		
Audible Alarms	Overload, Fault		Low Battery, Overload, Fault				
<b>Management</b>							
Auto-Charge / Auto-Restart	Yes						

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\*Other socket types available upon request.

### LOAD CHART

Recommend Models	Appliance	Energy Saving Lamp	Standing Fan	LCD TV	Desktop PC
CPS650EI		1	1	1	1
CPS850EI		2	2	1	1
CPS1000EI/CPS1200EILCD		4	4	1	1
CPS2000EI/CPS2200EILCD		8	8	1	1
CPS3000EILCD		12	12	1	1

\*Load may vary depending on the condition of the appliance.



## Solar Hybrid Inverter

With built-in Solar Charger Controller, CyberPower Solar Hybrid Inverter converts renewable solar energy into usable AC and stores excess power in batteries as backup power during emergencies.



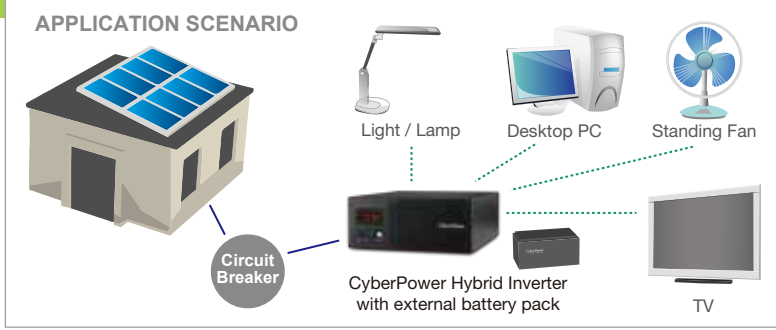
### APPLICATIONS

- Home and Home Office
- Small Office
- Home Theater System

### SERIES FEATURES

- Quick Charging Technology
- DC-to-AC Conversion
- Overload Protection
- Built-in Solar Charger Controller
- LCD Status Monitor
- Automatic Switch-Over
- Built-in Intelligent Charger

### APPLICATION SCENARIO



### TECHNICAL SPECIFICATIONS

Model	CPS1200EOH12SC	CPS2200EOH24SC	CPS3000EOH24SC
<b>Configuration</b>			
Capacity (VA )	1200	2200	3000
Capacity (Watts)	720	1320	1800
<b>Input</b>			
Voltage Range	Wide mode: 90VAC-280VAC Narrow mode: 170VAC-280VAC		
<b>Output</b>			
On Battery Output Voltage	Simulated Sine Wave +/-10%		
Transfer Time (Typical)	15-20ms typical,40ms max		
Overload Protection	1min @ >110%,0s @ >120%		
Output Receptacles**	(1) UN		(1) Terminal Block
<b>Physical</b>			
Maximum Dimensions (W x H x D) (mm)	250 x 90 x 265		240 x 100.5 x 280
Weight (kg)	2.23	2.32	4.6
<b>Battery</b>			
Lead Acid Battery	12VDC	24VDC	
Charging Voltage	13.7 $\pm$ 0.2VDC	27.4 $\pm$ 0.4VDC	
Charging Current	20A	10A	20A
<b>Solar Charger</b>			
Charging Current	40A		50A
System Voltage	12VDC	24VDC	
Operating voltage range	15~18VDC	30~36VDC	
Max. PV Array open circuit voltage	40VDC	55VDC	
<b>Status Indicators</b>			
Display	LCD		
Management			
Auto-Charge / Auto-Restart	Yes		

### LOAD CHART

Recommend Models	Appliance	Energy Saving Lamp	Standing Fan	LCD TV	Desktop PC
CPS1200EOH12SC		5	5	1	1
CPS2200EOH24SC		9	9	1	1
CPS3000EOH24SC		12	12	1	1

\*Load may vary depending on the condition of the appliance.

CyberPower®

## EMERGENCY POWER SYSTEMS & POWER/HYBRID INVERTER

Product Catalog



# Emergency Power Systems

CyberPower Emergency Power Systems (EPS) utilize state-of-art Microcontroller technology for the supply of lighting, generator, heater, refrigerator, motor, and other apparatus to provide resources during crisis or failure of regular systems.

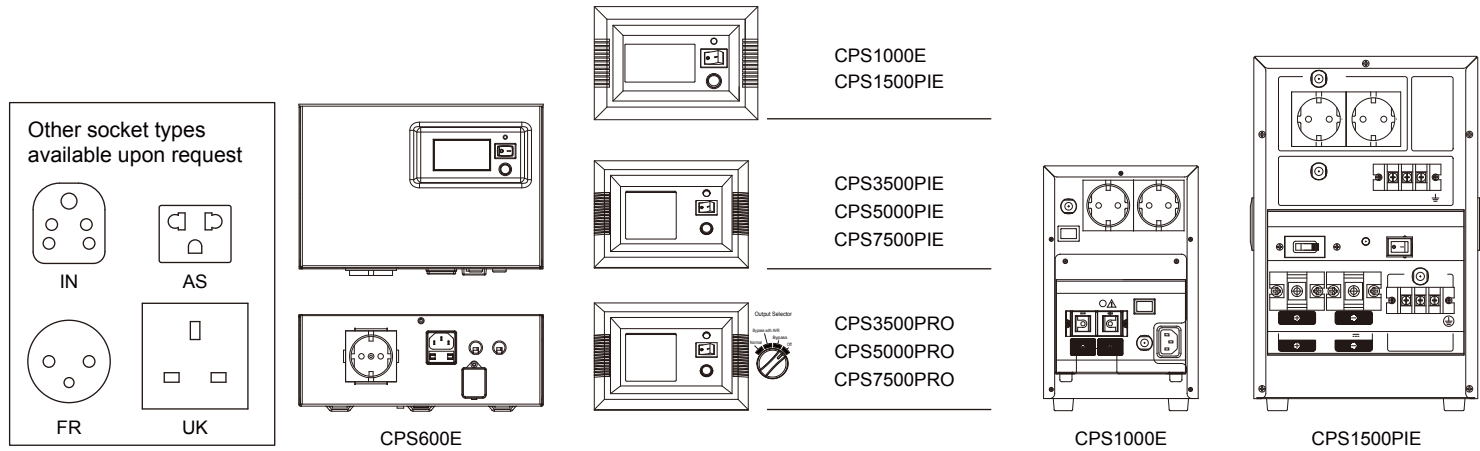
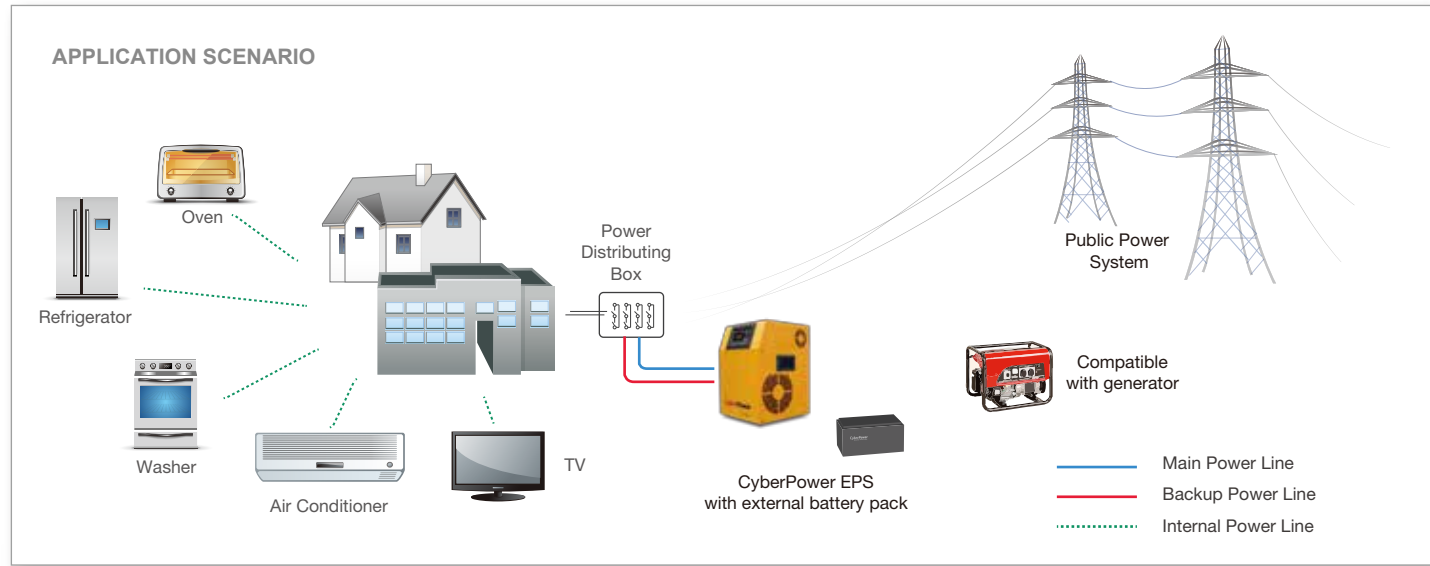
## APPLICATIONS

- Electric Lighting
- Generator
- Heating System
- Refrigerator
- Motor
- Pump

## SERIES FEATURES

- Noiseless, Fuel and Maintenance Free
- High Charging Current for Quick Recharging - Up to 5 times faster
- Bypass Mode Allows for Charge Only
- Generator Compatible Allows Longer Runtime
- Unlimited Battery Expansion Capability to Increase Runtime\*
- UPS Function for Auto-Chargeover
- Affordable DC Input Voltage- Minimum 12V battery required

- Automatic Voltage Regulation (AVR)
- Brownout and Over Voltage Protector
- Multifunction LCD Readout
- Wheel & Carry Handle Available\*
- Small & Light in Dimension
- Reverse Polarity Warning
- Manual Switch\*
- SNMP/HTTP Remote Management Capability\*



## TECHNICAL SPECIFICATIONS

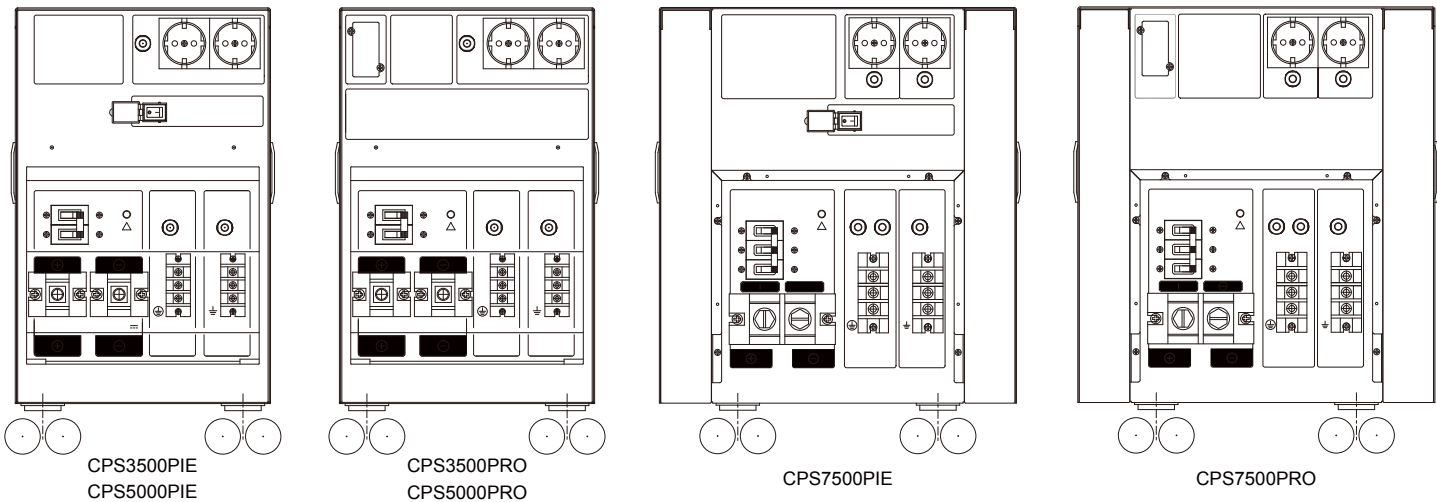
Model	CPS600E	CPS1000E	CPS1500PIE	CPS3500PIE
Configuration				
Capacity (VA / Watts)	600 / 420	1000 / 700	1500 / 1050	3500 / 2450
Input				
Frequency Range	50/60Hz ± 5Hz (Auto-sensing)			
DC Input Voltage	12V		24V	
Battery Pack Expansion	Yes			
Output				
Number of Phase	Single Phase			
UPS Outlets (Numbers)	(1) Schuko or (1) FR or (1) IN or (1) AS	(2) Schuko or (2) FR or (2) UK or (2) IN or (2) AS	(2) Schuko + (1) Terminal Block or (2) UK + (1) Terminal Block or (2) FR + (1) Terminal Block or (2) IN	(2) Schuko + (1) Terminal Block or (2) UK + (1) Terminal Block or (2) FR + (1) Terminal Block or (2) IN + (1) Terminal Block
On Battery Output Voltage	Pure Sine Wave** at 220/230 Vac +/- 5%	Pure Sine Wave** at 220/230/240 Vac +/- 5%	Pure Sine Wave at 220/230/240 Vac +/- 5%	
On Battery Output Frequency	50 Hz / 60 Hz +/- 1%			
Over Voltage Protection	Yes			
Transfer Time (Typical)	< 10 ms			
Overload Protection	On Utility: Fuse / On Battery: Internal Current Limiting	On Utility: Circuit Breaker / On Battery: Internal Current Limiting		
AVR	Single Boost & Single Buck	Double Boost & Single Buck		Single Boost & Single Buck
Charging Current	10Amps	15Amps	20Amps	50Amps
Manual Switch mode	—		Bypass Only	
Surge Protection and Filtering				
Lightning / Surge Protection	Yes			
Physical				
Dimensions (W x H x D) (mm)	240 x 162 x 90	208 x 153 x 241	206 x 261 x 325	260 x 330 x 440
Weight (kg)	4.1	8.2	18.6	36
Wheels	—			Yes
Status Indicators				
Indicators	Power On			
Audible Alarms	On Battery, Low Battery, Overload, Overcharge, Overheat			
Multi-function LCD Readout	Yes			
Communication				
Management Software	—			
Management				
Connectivity Ports	—			
SNMP/HTTP Capable	—			

\*All specifications are subject to change without notice. ©2015 CyberPower Systems. All trademarks are the property of their owners. \*\*CPS600/1000E: 0-40% LOAD Pure Sine Wave; 40-100% LOAD Trapezoidal Wave

## PRODUCT COMPARISON

Model	Topology	LCD	AVR	VA	Watt	Manual Switch	Communication Capability	Minimum Batteries Required(x 12v)	Outlets	Wheels	SNMP/HTTP
CPS600E	Pure Sine Wave*	v	v	600	420	-	-	1	(1) outlet	-	-
CPS1000E	Pure Sine Wave*	v	v	1000	700	-	-	1	(2) outlets	-	-
CPS1500PIE	Pure Sine Wave	v	v	1500	1050	-	-	2	(2) outlets+(1) terminal block	-	-
CPS3500PIE	Pure Sine Wave	v	v	3500	2450	-	-	2		v	-
CPS3500PRO	Pure Sine Wave	v	v	3500	2450	v	v	2		v	v
CPS5000PIE	Pure Sine Wave	v	v	5000	3500	-	-	4		v	-
CPS5000PRO	Pure Sine Wave	v	v	5000	3500	v	v	4		v	v
CPS7500PIE	Pure Sine Wave	v	v	7500	5250	-	-	4		v	-
CPS7500PRO	Pure Sine Wave	v	v	7500	5250	v	v	4		v	v

\*CPS600E/1000E: 0-40% LOAD Pure Sine Wave; 40-100% LOAD Trapezoidal Wave



Model	CPS5000PIE	CPS7500PIE	CPS3500PRO	CPS5000PRO	CPS7500PRO
<b>Configuration</b>					
Capacity (VA / Watts)	5000 / 3500	7500 / 5250	3500 / 2450	5000 / 3500	7500 / 5250
<b>Input</b>					
Frequency Range	50/60Hz ± 5Hz (Auto-sensing)				
DC Input Voltage	48V		24V	48V	
Battery Pack Expansion	Yes				
<b>Output</b>					
Number of Phase	Single Phase				
UPS Outlets (Numbers)	(2) Schuko + (1) Terminal Block or (2) UK + (1) Terminal Block or (2) FR + (1) Terminal Block or (2) IN + (1) Terminal Block				
On Battery Output Voltage	Pure Sine Wave at 220/230/240 Vac +/- 5%	Pure Sine Wave at 220/230/240 Vac +/- 10%	Pure Sine Wave at 220/230/240 Vac +/- 5%		Pure Sine Wave at 220/230/240 Vac +/- 10%
On Battery Output Frequency	50 Hz / 60 Hz +/- 1%				
Over Voltage Protection	Yes				
Transfer Time (Typical)	< 10 ms				
Overload Protection	On Utility: Circuit Breaker / On Battery: Internal Current Limiting				
AVR	Single Boost & Single Buck				
Charging Current	50Amps				
Manual Switch mode	Bypass Only		Normal / Bypass with AVR / Bypass / Off		
<b>Surge Protection and Filtering</b>					
Lightning / Surge Protection	Yes				
<b>Physical</b>					
Dimensions (W x H x D) (mm)	260 x 330 x 440	355 x 370 x 440	260 x 330 x 440		355 x 370 x 440
Weight (kg)	44	55	37	45	57
Wheels	Yes				
<b>Status Indicators</b>					
Indicators	Power On				
Audible Alarms	On Battery, Low Battery, Overload, Overcharge, Overheat				
Multi-function LCD Readout	Yes				
<b>Communication</b>					
Management Software	—		PowerPanel® Business Edition		
<b>Management</b>					
Connectivity Ports	—		Yes, with optional USB or Serial or SNMP Card (RMCARD205)		
SNMP/HTTP Capable	—		Yes		

## LOAD CHART

Models	Appliance	Energy Saving Lamp	Standing Fan	32"LCD TV	Fridge/Freezer	Desktop PC	1.5HP Air Conditioner
CPS600E	2	2	1	0	1	0	
CPS1000E	4	4	1	1	1	0	
CPS1500PIE	6	4	2	1	2	0	
CPS3500PIE	8	2	2	1	2	0	
CPS3500PRO	8	2	2	1	2	0	
CPS5000PIE	10	1	2	2	2	1**	
CPS5000PRO	10	1	2	2	2	1**	
CPS7500PIE	15	2	3	2	2	1***	
CPS7500PRO	15	2	3	2	2	1***	

\*Load may vary depending on the condition of the appliance. \*\* 12,000 BTU \*\*\* 18,000 BTU

## LONGER BACKUP FOR APPLIANCES



## EXTENDED BATTERY PACK

The EPS and Power Inverter both accommodate external battery which is not-swappable and easily plugged in. In the event of a complete power loss, severe brownout or over-voltage, the inverter will rely on the extended battery pack to supply a consistent 220 output voltage.

## MANUAL SWITCH

The manual switch output selector allows EPS users with different requirements to switch between four most common operation modes as below:  
• Normal mode • Bypass with AVR mode  
• Bypass mode • Off mode  
The external battery will remain charging during the above four scenarios even when utility power is normal.



## 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.



**Detail 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

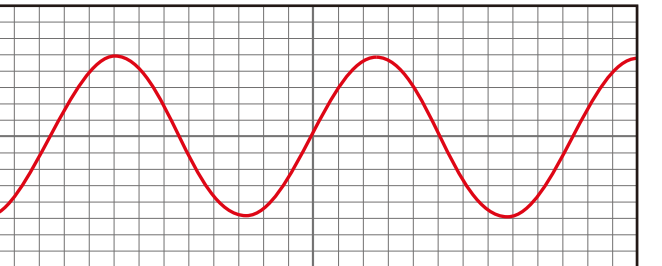
Load/ Current Level	Runtime	Output Frequency*
AVR in Use*	Battery in Use	Input Voltage
Overload	Battery Level	Output Voltage
Silent Mode	Battery Shutdown Voltage	Normal Operation
Static Frequency Tolerance	Battery Pack Numbers*	Slew Rate
Temperature (F and C)*		* = Select Models

## PURE SINE WAVE

The EPS 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 EPS 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: Operate 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: Operate 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.

## REMOTE MANAGEMENT CAPABILITIES (OPTIONAL)

The EPS features remote network management capabilities which include the PowerPanel® management software and an optional USB, Serial or SNMP/ HTTP network management card. These management tools enable administrators to perform various operations including remote management, real-time monitoring, and scheduled server/workstations shutdowns via Web Browser or Network Management System (NMS).

