

Our **Inverter/Emergency Power System** series aim in the provision of sufficient quality backup power to sustain home/office vital electrical/electronic systems in the event of a power failure!

Imagine there is a short or extended power failure due to network overload, natural disaster, or due to any reason at all! No **Communications, Computers, Lights, Refrigerators, TV & entertainment equipment, Heaters, Air-Conditioners, Water-Pumps, Security Systems**, no **Motors of any type** can work! Unless of course, you have a backup system that can instantly take over, providing regulated AC power to all your critical systems for a prolonged time period that can last for hours or even days! The EPS can do just that! Automatically! Instantly! Quietly! No need for maintenance or to add fuel since this is a 100% electrical power backup system based on safety batteries and on an elaborate Inverter Technology! Industrial-Class features within these models make them top and reliable performers protecting your investment for many years to come! We are proud to recommend these systems to you!



- Pure Sine-Wave Output Power for special applications
- Microprocessor based full Digital Control
- Adjustable Automatic Voltage Regulator (AVR)
- High Charging Current for Quick Recharging- up to 5 times faster!
- Integrated LCD-based multi-function Status Monitor
- EMI, RFI, Surge, Lightning, Spike, Brownout & Over-Voltage Protection
- High Runtime Expandability allowing for the connection of any number of external battery arrays in parallel configuration.
- External Batteries are "Hot-Swappable"
- Generator Compatible Interface allows for Longer Runtime
- Charging Bypass Circuitry and Reverse Polarity Protection
- Auto-Restart, auto-Changeover, auto-Charge Functions
- Easy to Use, Manage, Service
- Multiple power Output Interfaces for greater flexibility
- High Performance Output, High Reliability & Elaborate Features suitable for multi-purpose Environments, such as the support of Heaters, AC units, Refrigeration Units, Motors, Lights, etc.

When a *maintenance free CyberPower EPS* unit is connected to your in-house electrical installation, will automatically engage *in 10 milliseconds or less* following a power failure, *providing high quality regulated AC power* where needed! Just like a professional *UPS system* but with higher resilience and power to spare!

Please see the table below for some of the most *important appliances* with their approximate *Power Consumption Ratings*, that might need to be in operation during a power failure:

APPLIANCE	POWER RATING
Energy Lamps	~ 5 – 15W
DVD Player	~ 25W
4 feet Fluorescent	~ 40W
Air Fan	~ 50W
Satellite Decoder	~ 70W
Refrigerator / Freezer	~ 100 – 200W
42-inch LCD TV	~ 200W
Desktop Computer System	~ 350W
12000 BTU Air Conditioner	~ 1300W
Microwave Cooker	~ 1300W
Pumping Machine	~ 1000 – 1500W



**CyberPower provides a full range of Inverter/EPS products suitable for every need and for every budget. From an entry level unit for the maintenance of vital systems, to a power house model suitable for an entire home or small office! Available models are as follows:**



CPS600E



CPS1000E



CPS1500PIE



CPS3500PIE & CPS5000PIE

**AUTOMATICALLY SWITCH TO**  
**CyberPower®**  
**INVERTER**



CPS7500PIE

The units *can expand using an unlimited number of daisy-chained batteries*, to suit every need, thus being able to provide a very long quality backup time!

CyberPower's wide model availability on Inverter/UPS units allow you to start by utilizing just one 12V battery, (like on the **CPS600E** and **CPS1000E** models)!

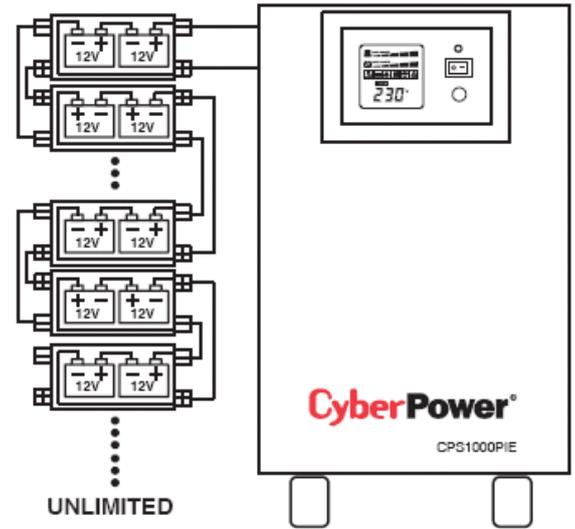
Batteries are being charged by utility or external generator AC power. **In the event of a power failure the unit will instantly switch to battery backup** providing power to the lines feeding pre-select areas of the home or office! It is that simple!

**Inverter/UPS current models can sustain from 420W up to 5250W of actual load connected to them for a quite prolonged period of time**, depending on the number of batteries daisy-chained onto the unit. As shown on the reference side diagrams, daisy-chaining the batteries is easy, and CyberPower can provide all the cabling accessories needed to do the job together with detailed installation documentation.

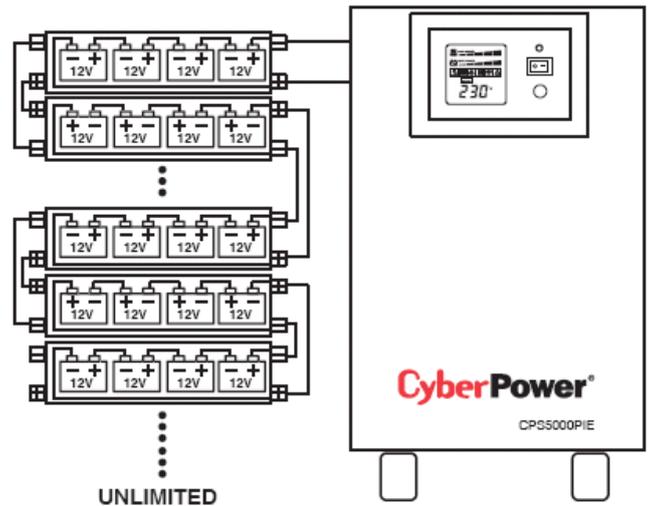
**A typical home can function rather well with less than 2500W consumption in case on a prolonged power failure emergency!** Lights, Water Pump, Central Heating, Communications, and Refrigeration are the most vital systems one needs to take into account in the event of a prolonged failure. **And the EPS can do exactly that!**



**Operating the Unit is extremely Simple and Efficient! A build-in LCD with user friendly interface provides all types of relevant information to the user, so appropriate and timely action can be taken as needed!**

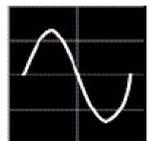


**Battery Expansion is simple and effective as shown on the two diagrams above and below based on the 3.5KVA (24V DC-Input) and on the 5KVA (48V DC-Input) units.**



**Load/Runtime reference chart using CyberPower's CPS3500PIE EPS together with 12V 200AH Batteries:**

Load in %	Load in Watts	Runtime in HOURS				
		2 Batteries	4 Batteries	6 Batteries	8 Batteries	10 Batteries
25%	600 W	7.30	14.60	21.90	29.20	36.50
50%	1203 W	3.08	6.17	9.25	12.33	15.42
75%	1804 W	1.72	3.43	5.15	6.87	8.58
100%	2402 W	1.00	2.00	3.00	4.00	5.00



Pure Sine Wave

**Load/Runtime reference chart using CyberPower's CPS5000PIE EPS together with 12V 200AH Batteries:**

Load in %	Load in Watts	Runtime in HOURS				
		4 Batteries	8 Batteries	12 Batteries	16 Batteries	20 Batteries
25%	875	11.87	23.73	35.60	47.47	59.33
50%	1751	5.08	10.17	15.25	20.33	25.42
75%	2625	2.92	5.83	8.75	11.67	14.58
100%	3502	1.97	3.93	5.90	7.87	9.83



AVR  
AUTOMATIC VOLTAGE REGULATOR



Surge Protection

**CAPACITY:**

- \* **CPS600E:** 600VA / 420W
- \* **CPS1000E:** 1000VA / 700W
- \* **CPS1500PIE:** 1500VA / 1050W
- \* **CPS3500PIE:** 3000VA / 2450W
- \* **CPS5000PIE:** 5000VA / 3500W
- \* **CPS7500PIE:** 7500VA / 5250W

**LCD DISPLAY:**

Used to display detailed information on the UPS status, (Line / Battery Mode), and current power conditions. Displays many different Information blocks including: Load Level Meter, Battery Charge Level Meter, Fault Indicator, Overload Indicator, Silent Mode Indicator, AVR in Use, Battery in Use, Input Voltage Level, Output Voltage Level, Estimated Run-Time based on Actual Load, etc.

**AC INPUT POWER:**

- \* **AC Input Voltage Range:** 140V ~ 300V, 50Hz / 60 Hz (+/- 1%) auto-sensing
- \* **Over Voltage Protection:** Surge up to 400V and able to handle prolonged *Over Voltage* periods

**CHARGING CURRENT (max):**

- \* **CPS600E:** 10 Amps
- \* **CPS1000E:** 15 Amps
- \* **CPS1500PIE:** 20 Amps
- \* **CPS3500PIE:** 45 Amps
- \* **CPS5000PIE:** 45 Amps
- \* **CPS7500PIE:** 45 Amps

**DC INPUT POWER:**

- \* **CPS600E:** 12 VDC
- \* **CPS1000E:** 12 VDC
- \* **CPS1500PIE:** 24 VDC
- \* **CPS3500PIE:** 24 VDC
- \* **CPS5000PIE:** 48 VDC
- \* **CPS7500PIE:** 48 VDC

**OUTPUT POWER:**

- \* Single Phase AC Power
- \* **On Battery Output Voltage:**
  - for the **CPS –PIE Series:** Pure Sine-Wave at 220V (+/- 5%)
  - for the **CPS –E Series:** 0~40% Load -> Pure Sine-Wave & 40~100% Load -> Trapezoidal Wave (+/- 5%)
- \* **On Battery Output Frequency:** 50Hz / 60 Hz (+/- 1%)
- \* **Typical Transfer Time:** Less than 10 ms
- \* **Overload Protection Scheme:**
  - for the **CPS600E:** On Main Power by *Fuse*, and on Battery Power by *Internal Current Limiting*
  - for **all other models:** On Main Power by *Circuit Breaker*, and on Battery Power by *Internal Current Limiting*
- \* **Automatic Voltage Regulator (AVR):** Boost and Buck

**EXTERNAL BATTERY INFORMATION:**

- \* **Recommended type of battery:** 12V / 100AH or 12V / 200AH *Deep Dry Cycle*.

[ *An Unlimited No. of Batteries can be connected in parallel to increase Runtime.* ]

\* **Minimum Number of Batteries Required:**

- for the **CPS600E** and **CPS1000E** models: 1 x 12V
- for the **CPS1500PIE** and **CPS3500PIE** models: 2 x 12V
- for the **CPS5000PIE** and **CPS7500PIE** models: 4 x 12V

[ *Can also use of special 24V or 48V batteries in a configuration that satisfies the required DC Input Power specs.* ]

- \* **Typical Recharge Time:** Usually 8~12 hours for a 90% charge depending on model and battery type used

**STATUS INDICATORS:**

- \* Power-On *LED* and *Multi-function LCD* Display
- \* **Audio Alarms for:** Overload, On-Battery, Low-Battery

**POWER OUTPUT RECEPTACLES:**

- \* **CPS600E:** 1x Schuko (or British or French) type
- \* **CPS1000E:** 2x Schuko (or British or French) type
- \* **CPS1500PIE, CPS3500PIE** and **CPS5000PIE:** 2 x Schuko (or British, or French) type, and a Terminal Block

**PHYSICAL INFORMATION:**

- Dimensions:**
- CPS600E:** 240 (L) x 162 (W), x 90 (H) mm
  - CPS1000E:** 153 (L) x 208 (W) x 241 (H) mm
  - CPS1500PIE :** 261 (L) x 206 (W) x 325 (H) mm
  - CPS3500PIE & CPS5000PIE :** 330 (L) x 260 (W) x 440 (H) mm
  - CPS7500PIE:** 370 (L) x 355 (W) x 440 (H) mm

- Weight:**
- CPS600E:** 4.1 kg. **CPS1000E:** 8.2 kg. **CPS1500PIE :** 18.6 kg
  - CPS3500PIE:** 36 kg. **CPS5000PIE:** 44 kg. **CPS7500PIE:** 55 kg. –

[ *Easy Mobility on Wheels for the CPS3500PIE, CPS5000PIE and CPS7500PIE models.* ]

**Storage Temperature:** -15°C ~ +45°C

**Operating Temperature:** 0°C ~ 40°C. Operating Humidity: 0%~95% non-condensed.

CyberPower's  
Manufacturing  
Facilities are  
ISO 9001:2000,  
ISO 14000, and  
QC080000  
Approved