



# FERRUPS single-phase UPS

## General Overview

# Eaton FERRUPS



The Eaton FERRUPS delivers proven, ferroresonant battery backup power and scalable runtimes for 911 centers, global military installations, marine vessels and other critical applications. Highly configurable with a wide range of voltages, frequencies, runtimes, power cords and receptacles, the Eaton FERRUPS continually regulates voltage and eliminates harmful harmonic currents.

# FERRUPS Applications

## Delivering quality power for:

- Any small, medium, or large single phase application (0.5-18kVA) requiring robust, isolated power protection
- Industrial or harsh environments

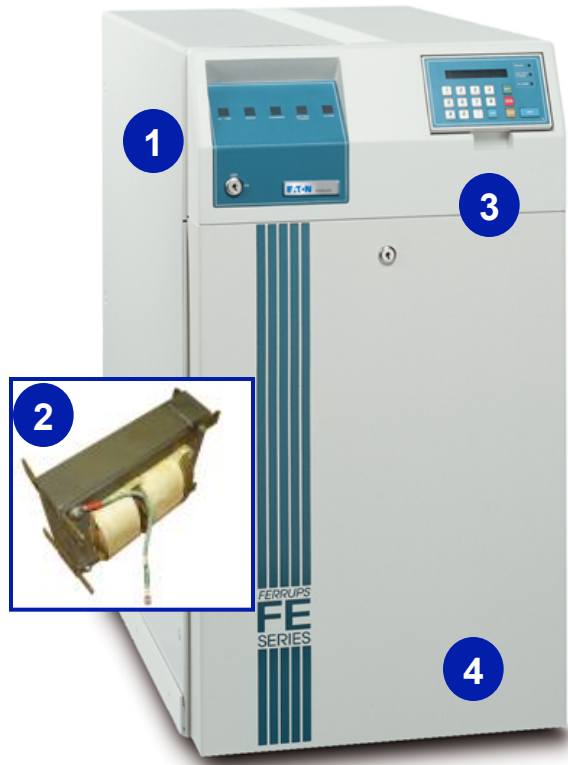


## Typical applications:

- Industrial and manufacturing environments
- Shipboard devices
  - Ground is disconnected from neutral
  - Military naval applications
- Telecommunications and computer equipment



# FERRUPS : Design Benefits



**1. The rugged, industrial design** ensures quality power in even harsh environments

**2. A ferroresonant transformer** isolates input from output, filtering line noise and surges

**3. User-adjustable input voltage window** regulates voltage without normally drawing battery power, increasing available runtime and making Ferrups ideal for poor power conditions and/or generator use

**4. Configure-To-Order Part Numbers** allow user-specified power, voltage, runtime, bypass, and input/ output; tens of thousands of configurations provide customers the right power solution

# FERRUPS : Design Benefits



**5. 80+ programmable functions** for diagnostics and communications give greater UPS manageability

**6. Available rackmount form factors** provide versatility and easy installation into rack applications

**7. The transformer design** allows the UPS to **re-derive the neutral**, creating a price-effective solution for 120, 208, and 240V outputs when only 2P+G is present

**8. Ground-to-neutral bond removal** makes Ferrups an excellent UPS solution for shipboard applications

# FERRUPS : Technical Specifications

**Power Rating:** 500VA – 18kVA / 350W – 15kW  
.7 to .83 Power Factor

**Nominal I/O Voltage:** 120/ 208/ 220/ 230/ 240V options

**Frequency:** 50 and 60Hz models available

**Form Factor:** Tower: 500VA – 18kVA  
Rackmount: 850VA – 7kVA

**Topology:** Ferrups® topology protects against 8 of the 9 most common power problems



# FERRUPS : User Interface

**Indicators** and a **Control Panel** provide information and allow UPS management

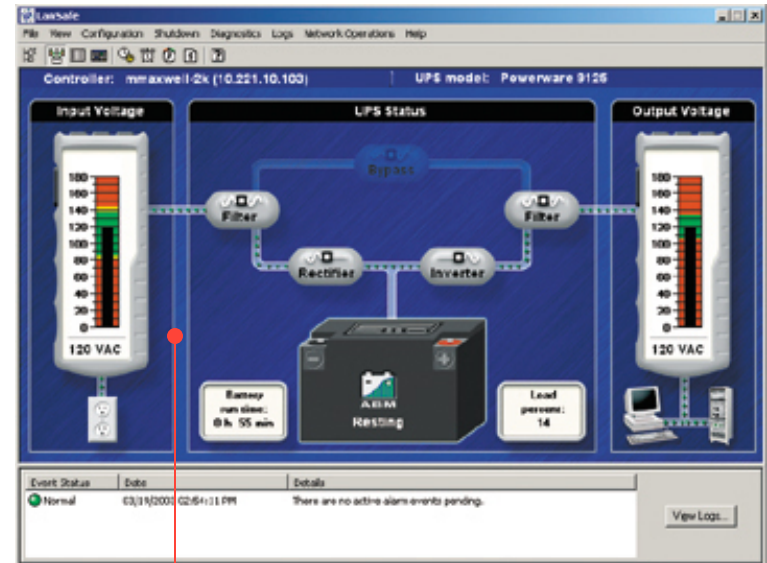


5 indicators clearly display UPS status:

- **AC Line Present**
- **Ready** to provide backup power
- **Charging** batteries
- UPS is on **Battery Power**
- **Alarm**

The Control Panel allows change and display of system modes and parameters

**Powerware LanSafe® software** for remote monitoring, management and shutdown



Complimentary software allows remote monitoring of UPS status and graceful shutdown during an extended power failure

# Ferrups : Accessories

- Battery cabinets and chargers
  - Configurable internal runtime options to meet customer needs
  - Over 40 external battery cabinets to ensure sufficient extended runtimes
  - Charger options improve UPS availability
- External bypass switches
  - Wall-mounted service bypass switches allow for greater uptime and serviceability
  - Available in Make-Before-Break and Break-Before-Make configurations, and with locking and AS/400 options
- Connectivity options
  - Standard RS-232 serial port plus contact closures
  - Additional Web/SNMP option through adapter





# Powerware Ferrups : Summary

- **Robust.** Ferrups boasts a rugged design to deliver quality power in tough environments and poor power conditions.
- **Configurable.** With tens of thousands of configurations, customers can select the right power, voltage, input, output and runtimes and total power solution for almost any application.
- **Proven.** With over two decades of demonstrated reliability, Ferrups is the most field-proven product line from the world's leading power quality company.



**Delivering unsurpassed reliability for over 30 years**

**EATON**

*Powering Business Worldwide*