

Eaton FERRUPS UPS



Features

- Active voltage regulation converts power from almost any AC source into computer grade power
- Eliminates harmful harmonic currents from entering a building's wiring, where they can disrupt computer operations
- Enhanced diagnostics initiates automatic startup and scheduled tests on the logic board, battery and other critical systems
- Provides regulated output voltage without drawing power from batteries keeping the batteries full charged from unexpected blackouts
- Complete offering of LanSafe® power management software included to ensure data integrity
- Provides investment protection with a two-year limited warranty and a \$250,000 load protection guarantee (US and Canada)

Product Snapshot

| | |
|------------------------|-------------------------|
| Product rating: | 500 VA–18 kVA |
| Input voltage | 120/208/240, 208/240 |
| Output voltage | 120/208/240 |
| Frequency: | 60 Hz |
| Configuration: | Cabinet |

Eaton® FERRUPS® uninterruptible power systems furnish unmatched reliability in configurable power protection for computers and telecommunications equipment. Patented ferroresonant technology delivers “bulletproof” power protection, overcoming spikes, sags, surges, noise and lightning. Eaton-exclusive SineSense provides clean, reliable power while conserving batteries during blackouts.

Extensive configurability options make FERRUPS the ideal power protection solution with a wide range of voltages, frequencies, runtimes, power cords and receptacles. FERRUPS prevents the backfeed of harmonic currents into building wiring which can disrupt computer operations.

Redundant power paths assure high fault-tolerance and optimum uptime. Galvanic isolation separates input from output, filtering line noise and surges. FERRUPS also features precision voltage regulation with no battery discharge down to 38% below nominal (depending upon load) as well as over 80 user-programmable diagnostic and communications functions.

FERRUPS models include free Eaton Software Suite power management software with connectivity cable and are BestLink SNMP/Web-ready for remote management. FERRUPS covers up to \$250,000 for damage to connected equipment resulting from a spike or surge (US and Canada only).



Powering Business Worldwide

FE SERIES, 60 HZ SPECIFICATIONS

| Models | 500 VA | 700 VA | 850 VA | 1.15 kVA | 1.4 kVA | 1.8 kVA | 2.1 kVA | 3.1 kVA | 4.3 kVA | 5.3 kVA | 7 kVA | 10 kVA | 12.5 kVA | 18 kVA | |
|---|-------------------------|-----------------|----------|----------------|--------------------|-------------------------|--------------------------|----------------------------------|---|----------------------------------|------------------|----------|-------------------|----------|------|
| Part number | FE500 VA | FE700 VA | FE850 VA | FE1.15 kVA | FE1.4 kVA | FE1.8 kVA | FE2.1 kVA | FE3.1 kVA | FE4.3 kVA | FE5.3 kVA | FE7 kVA | FE10 kVA | FE12.5 kVA | FE18 kVA | |
| Capacity (kVA/kW) | .5/.35 | .7/.5 | .85/.6 | 1.15/.8 | 1.4/1 | 1.8/1.25 | 2.1/1.5 | 3.1/2.2 | 4.3/3 | 5.3/3.7 | 7/5 | 10/7.5 | 12.5/10 | 18/15 | |
| Dimensions H x W x D | (inches) | 12 x 10 x 21.25 | | | 15.1 x 15.2 x 20.2 | | | 21.2 x 15.25 x 22.9 | | | 29.5 x 15.5 x 25 | | 36.5 x 19 x 32** | | |
| | (mm) | 305 x 255 x 540 | | | 385 x 390 x 515 | | | 540 x 390 x 585 | | | 750 x 395 x 635 | | 930 x 485 x 815** | | |
| Weight | (lb) | 62 | 79 | 85 | 132 | 154 | 183 | 196 | 256 | 359 | 505 | 604 | 875 | 1089 | 1362 |
| | (kg) | 28 | 36 | 39 | 60 | 70 | 83 | 89 | 116 | 163 | 229 | 274 | 397 | 494 | 618 |
| Input connection (hardwired input is standard for FE1.8 kVA and above) | 6-ft cord w/NEMA 5-15P* | | | | | 6-ft cord w/NEMA 5-20P* | 6-ft cord w/NEMA L5-30P* | 120V/40A 208V/25A 240V/20A | 120V/40A 208V/30A 240V/25A | 120V/40A 208V/40A 240V/35A | | | | | |
| Output connection | (4) NEMA 5-15R | | | (6) NEMA 5-15R | | (6) NEMA 5-15R | | | Hardwired output is standard— for additional recetacle selections, refer to FERRUPS CTO Guide | | | | | | |
| Typical runtime, minutes | (full load) | 9 | 14 | 11 | 18 | 14 | 11 | 9 | 14 | 10 | 20 | 12 | 11 | 18 | 10 |
| | (half load) | 25 | 35 | 28 | 48 | 37 | 30 | 25 | 35 | 24 | 50 | 33 | 26 | 48 | 26 |

| Operation | | | | | | | | | | | | | | | |
|-------------------------------------|---|----|----|-------------|----|----|----|----|----|---------|----|----|----|----|--|
| Nominal input voltage | 120 | | | 120/208/240 | | | | | | 208/240 | | | | | |
| Input voltage range | +15%, -20% | | | | | | | | | | | | | | |
| Input power factor | 0.98 | | | | | | | | | | | | | | |
| Nominal output voltage | 120 | | | 120/208/240 | | | | | | | | | | | |
| Output voltage regulation | ±3% for input voltages of +15% to -20% | | | | | | | | | | | | | | |
| Output voltage waveform | Sine wave | | | | | | | | | | | | | | |
| Output voltage THD | 5% or less at rated kW load | | | | | | | | | | | | | | |
| Overload capacity | 150% surge and 125% for 10 minutes online, 150% surge and 110% for 10 minutes on inverter | | | | | | | | | | | | | | |
| Transfer time | 0 ms | | | | | | | | | | | | | | |
| Lightning, surge & noise protection | 2000:1 spike attenuation using ANSI/IEEE C62.41 and C62.45 Category A and Category B tests Common mode: >120 dB. Normal mode: >60 dB | | | | | | | | | | | | | | |
| Efficiency | 85 | 86 | 85 | 88 | 88 | 90 | 90 | 91 | 90 | 90 | 90 | 90 | 91 | 92 | |
| Safety certification | UL, CSA (cUL) | | | | | | | | | | | | | | |
| EMI compliance | FCC Class A | | | | | | | | | | | | | | |
| Testing standards | ANSI/EEE C62.41 (1980); ANSI/EEE C62.45 (1987); IEC 801-2, 801-4, 801-5 | | | | | | | | | | | | | | |
| Communication | RS-232 serial port (DB25), plus contact closures | | | | | | | | | | | | | | |

| Environmental | | | | | | | | | | | | | | |
|--------------------------|--------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Operating temperature | 0°C to 40°C (32°F to 104°F) | | | | | | | | | | | | | |
| Storage temperature | -20°C to +60°C (-4°F to 140°F) | | | | | | | | | | | | | |
| Relative humidity | 5 to 95% without condensation | | | | | | | | | | | | | |
| Audible noise at 1m (dB) | 41 | 41 | 47 | 49 | 49 | 51 | 51 | 51 | 50 | 51 | 52 | 55 | 56 | 57 |
| Altitude | 3,050m (10,000 ft) maximum | | | | | | | | | | | | | |

Due to continuing product improvement programs, all specifications are subject to change without notice. *120V standard configuration. **Batteries in second cabinet. Contact factory for weights and dimensions.

For Sales or Service Call or Visit:
 Power Pros, Inc.
 888-330-2538
www.powerprosinc.com

Eaton, LanSafe and FERRUPS are trade names, trademarks and/or service marks of Eaton Corporation or its subsidiaries and affiliates. All other trademarks are property of their respective owners.

©2008 Eaton Corporation
 All Rights Reserved
 Printed in USA
 LTP0368
 November 2008

