Eaton FERRUPS Rackmount 60 Hz



Product snapshot

Rating: 1.4 kVA-7 kVA Input voltage: 120/208/240
Output voltage: 120/208/240
Frequency: 60 Hz
Configuration: Rackmount



Eaton NetWatch Client 5.0 has tested compatible with Cisco Unified Communications Manager 4.3. Go to www.eaton.com/PQ/cisco for disclaimer.

Unmatched reliability in configurable power protection for computers and telecommunications equipment

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 initiate 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 fully charged for unexpected blackouts
- Complete offering of LanSafe® power management software included to ensure data integrity
- Enables automatic shutdown of UPS-protected devices with NetWatch Client 5.0 software
- Provides investment protection with a two-year limited warranty and \$250,000 load protection guarantee (U.S. and Canada)

Eaton® FERRUPS® UPSs 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 (U.S. and Canada only).



Technical specifications

Model		1.4 kVA	2.1 kVA	3.1 kVA	7 kVA*
Model No.		FES1.4 kVA	FER2.1 kVA	FER3.1 kVA	FER7 kVA
Capacity (kVA/kW)		1.4/1	2.1/1.5	3.1/2.2	7/5
Dimensions H x W x D	inches mm	9.75 x 16 x 21.25 248 x 406 x 540	9.75 x 16 x 26.25 248 x 406 x 667	9.75 x 16 x 26.25 248 x 406 x 667	19 x 16 x 26.25 483 x 406 x 667
Front panel H x W	inches mm	10.5 x 19 267 x 483	10.5 x 19 267 x 483	10.5 x 19 267 x 483	19.25 x 19 489 x 483
Battery pack H x W x D	inches mm	Internal	Internal	Internal	8.3 x 16.25 x 24.25 211 x 413 x 616
Weight (includes batteries)	lb kg	150 68	220 100	238 108	580 263
Input—hardwired connection circuit breaker requirement (contact factor for powercord options)	У	120=15A	120=25A	120=35A 208=20A 240=20A	208=40A 240=40A
Output connection		Hardwired output is standard. Contact factory for receptacle options.			
Typical runtime: (minutes)	full load half load	14 36	24 58	14 35	12 33
Operation					
Nominal input voltage	120/208/240				
Input voltage range		+15%, -20%			
Operating frequency		60 Hz (online: ±0.01 Hz to ±3 Hz adjustable, on inverter: ±0.005 Hz)			
Nominal output voltage		120/208/240			
Output voltage regulation		±3% for input voltages +15%, -20% of nominal			
Output voltage waveform		Sine Wave			
Output voltage		THD 5% or less at rated kW load			
Overload capacity		150% surge and 125% f	or 10 minutes on-line. 150%	surge and 110% for 10 min	utes on inverter
Transfer time		0 ms			
Lightning, surge and noise protection		2000: 1 spike attenuation using C62.41 and C62.45 Category A and Category B tests Noise rejection: common mode—>120 dB, normal mode—>60 dB			
Efficiency % (online)		88	90	91	90
Heat (online)	BTU/hr kW/hr	465 0.136	568 0.166	742 0.217	1896 0.556
Battery charger (DC)		12V, 4A	48V, 4A	48V, 4A	48V, 5A
Safety certification		UL, CSA (CUL)			
EMI compliance		FCC Class A			
Testing standards		ANSI/IEEE C62.41 (1991); ANSI/IEEE C62.45 (2002); EN62040-2			
Communication		RS232 serial port (DB-25), plus contact closures			
Environmental					
Operating temperature		0° to 40°C			
Storage temperature		-20° to +60°C (-20° to +40°C if battery not removed)			
Relative humidity		5 to 95% without condensation			
Audible noise (dBA)		50	50	51	52
Altitude		3050m (10,000 ft) maximum			

^{* 7} kVA model includes front panel keypad and display. All specifications typical and are subject to change without notice.

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