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	208V/60A 240V/50A	208V/75A 240V/65A	208V/115A 240V/100A
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.

UNITED STATES
8609 Six Forks Road
Raleigh, NC 27615 U.S.A.
Toll Free: 1.800.356.5794

www.eaton.com/powerware

CANADA
Ontario: 416.798.0112

LATIN AMERICA
Argentina: 54.11.4343.6323
Brazil: 55.11.3616.8500
México: 52.55.5488.5252

EUROPE/MIDDLE EAST/AFRICA
Denmark: 45.3686.7910
Finland: 358.94.52.661
France: 33.1.6012.7400
Germany: 49.7841.666.0
Italy: 39.02.66.04.05.40
Norway: 47.23.03.65.50
Sweden: 46.8.598.940.00
United Kingdom: 44.1753.608.700

ASIA PACIFIC
Australia/NZ: 61.2.9693.9366
China: 86.21.6361.5599
HK/Korea/Taiwan: 852.2745.6682
India: 91.11.2649.9414 to 18
Singapore/SEA: 65.6829.8888

Printed in USA
LTP0368
November 2008

EATON
Powering Business Worldwide