

FERRUPS[®] Rackmount

UNINTERRUPTIBLE POWER SYSTEMS

850VA TO 7kVA
**Unmatched reliability in
configurable power
protection for computers
and telecommunications
equipment.**

60Hz

Built to Protect:

- > Midrange Computer Systems
- > Application and Database Servers
- > Clustered File Servers
- > Internetworking Equipment
- > PBX and Communications Systems
- > Process Control Equipment
- > Sensitive Electronics in Poor Power Conditions

Active Voltage Regulation

FERRUPS has unprecedented ability to work with all types of input sources and loads. Plus, its Active Voltage Regulation converts power from almost any AC source into computer-grade power:

Longer Runtime

FERRUPS provides regulated output voltage without drawing power from the batteries for input voltages as low as 38-percent below nominal (based on size of load). This keeps the batteries fully charged for unexpected blackouts.

Eliminates Harmonics

FERRUPS stops harmful harmonic currents generated by widely used switch-mode power supplies (SMPS) from entering a building's wiring, where they could disrupt computer operations.

Computer Load Compatibility

FERRUPS can meet the demands of today's computer loads, including power-factor corrected, switch-mode, and linear power supplies.

Enhanced Communications with Free Software

Every FERRUPS unit comes bundled with *free* CheckUPS[®] II Suite power management software and connecting cable. CheckUPS II helps users monitor, diagnose, and react more effectively to power-line events, and provides automatic, unattended shutdown when needed. The CD-ROM-based software supports most major operating systems. A BestLink[™] SNMP/WEB Adapter can be connected for remote network operations.

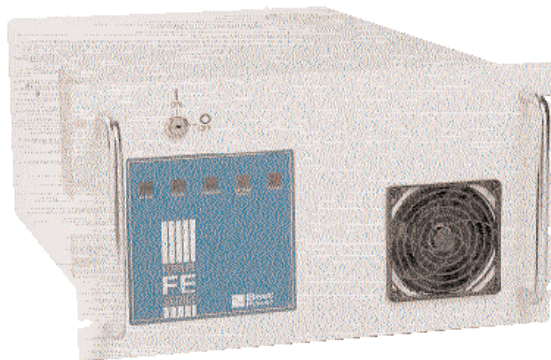
Enhanced Diagnostics

FERRUPS initiates automatic startup and performs scheduled tests on the logic board, battery, inverter, and other critical systems.

Comprehensive Warranty

FERRUPS is covered by our two-year limited warranty against factory or workmanship defects. We up the ante with our "Double Lifetime" limited warranty* that repairs or replaces your FERRUPS if damaged by lightning, and covers up to US\$25,000 for damage to connected equipment. Call the factory for details on these limited warranties.

*U.S. and Canada only.



CheckUPS[®] II software and cable provided for a complete power management solution.

**Best
Power**
UNINTERRUPTIBLE
POWER SYSTEMS

The Best Solution[™]

FERRUPS® Rackmount

UNINTERRUPTIBLE POWER SYSTEMS

60Hz Specifications

Model	850VA	1.15kVA	1.4kVA	1.8kVA	2.1kVA	3.1kVA	4.3kVA*	7kVA*
Part No.	FES850VA	FES1.15kVA	FES1.4kVA	FER1.8kVA	FER2.1kVA	FER3.1kVA	FER4.3kVA	FER7kVA
Capacity (kVA/kW)	.8/6	1.15/8	1.4/1	1.8/1.25	2.1/1.5	3.1/2.2	4.3/3	7/5
Dimensions inches	9.75 x 16 x 21.25			9.75 x 16 x 26.25 [†]			19 x 16 x 26.25	
H x W x D mm	248 x 406 x 540			248 x 406 x 667			483 x 406 x 667	
Front Panel inches	10.5 x 19			10.5 x 19			19.25 x 19	
H x W mm	267 x 483			267 x 483			489 x 483	
Battery Pack inches	Internal			Internal			8.3 x 16.25 x 24.25	
H x W x D mm							211 x 413 x 616	
Weight lb	105	135	150	209	220	238	495	5 80
(includes batteries) kg	48	62	68	95	100	108	225	263
Input - Hardwired Connection	120=10A	120=15A	120=15A	120=20A	120=25A	120=35A	120=40A	120=65A
Circuit Breaker Requirement	208=5A	208=10A	208=10A	208=15A	208=15A	208=20A	208=25A	208=40A
(Contact factory for powercord options.)	240=5A	240=5A	240=10A	240=10A	240=15A	240=15A	240=20A	240=35A
Output Connection	Hardwired output is standard. Contact factory for receptacle options.							
Typical Runtime: full load	11	19	14	31	24	14	26	12
(minutes) half load	28	49	36	73	58	35	61	33
Operation								
Nominal Input Voltage	120/208/240							
Input Voltage Range	+15%, -20%							
Operating Frequency	60 Hz (on-line - ±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. +5%,-8.3% for any line, load or battery condition.							
Output Voltage Waveform	Sine Wave							
Output Voltage	THD 5% or less THD at rated kW load							
Overload Capacity	150% surge and 125% for 10 minutes on-line. 150% surge and 110% for 10 minutes on inverter.							
Transfer Time	0 ms							
Lightning, Surge, and	2000:1 spike attenuation using C62.41 and C62.45 Category A and Category B tests.							
Noise Protection	Noise Rejection: Common Mode - >120 dB, Normal Mode - >60dB							
Efficiency % (on-line)	85	88	88	90	90	91	90	90
Heat (on-line) BTU/hr.	361	372	465	474	568	742	1138	1896
kW/hr.	0.106	0.109	0.136	0.139	0.166	0.217	0.333	0.556
Battery Charger (DC)	12V, 4A	12V, 8A		48V, 4A			48V, 5A	
Safety Certification	UL, CSA (CUL)							
EMI Compliance	FCC Class A							
Testing Standards	ANSI/IEEE C62.41 (1980);ANSI/IEEE C62.45 (1987);IEC 801-2, 801-4, 801-5							
Communication	DB25 communication port with RS-232 serial communications, alarm and inverter contact closures, and EPO shutdown.†							
Environmental								
Operating Temperature	0° to 40° C							
Storage Temperature	-20° to +60° C (-20° to +40° C if battery not removed)							
Relative Humidity	0 to 95% without condensation							
Audible Noise (dBA)	48	50	50	50	50	51	50	52
Altitude	3050 m (10,000 ft.) maximum							
* 8, 2.1, and 3.1kva models can be configured with 21.25 inch depth. Consult factory.								
† 4.3kVA and 7kVA models include front panel keypad and display.								



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