

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 auto matic 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 from unexpected blackouts
- ► Complete offering of power management software included to ensure data integrity

Warranty

- ▶ 2-Year Limited Warranty
- ▶ \$25,000 Load Protection Guarantee (U.S. and Canada)

FERRUPS® FE Series 50Hz

Unrivaled reliability in configurable power protection for computers and telecommunications equipment.



Powerware 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. Powerware-exclusive SineSense™ provides clean, reliable power while conserving batteries during blackouts.

Extensive configurability and customization 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.

Product Snapshot

Rating: 500 VA - 18kVA Input Voltage: 220/230/240 Output Voltage: 220/230/240

Frequency: 50 Hz Configuration: Tower

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); and over 80 user-programmable diagnostic and communications functions.

FERRUPS has won Midrange Systems' "Buyer's Choice" award six of the last eight years.

FERRUPS models include free Powerware

Software Suite power management software with connectivity cable, and are BestLink™

SNMP/WEB-ready for remote management.

FERRUPS covers up to US\$25,000 for damage to connected equipment resulting from a spike or surge (U.S. and Canada only).



FE Series, 50Hz Specifications

Models		500VA	700VA	850VA	1.15kVA	1.4kVA	1.8kVA	2.1kVA	3.1kVA	4.3kVA	5.3kVA	7kVA	10kVA	12.5kVA	18kVA
Part Number		QFE500VA	QFE700VA	QFE850VA	QFE1.15kVA	QFE1.4kVA	QFE1.8kV/	QFE2.1kV/	QFE3.1kVA	QFE4.3kVA	QFE5.3kVA	QFE7kVAC	QFE10kVA	QFE12.5kV/	QFE18kVA
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 (inches)		12 x 10 x 21.25			15.1 x 1!	5.2 x 20.2	21.2	21.2 x 15.25 x 22.9		29.5 x 15.5 x 25		36.5 x 19 x 32**			
HxWxD	(mm)	305 x 255 x 540			385 x 3	90 x 515	540	540 x 390 x 585			95 x 635	930 x 485 x 815**			
Weight	(lbs)	62	80	86	132	154	183	196	256	360	505	605	875	1341	1300
	(kg)	28	36	39	60	70	83	89	116	163	229	274	397	609	589
Input Connection									IEC-320	220/19A	220/21A	220/27A	220/43A	220/55A	220/81A
		IEC-320 (10A) male connector (16A) male 230/18A 230/20A 230/26A 230/41A 230/53A										230/78A			
	connector 240/17A 240/19A 240/24A 240/39A 240/51A 240/75A													240/75A	
Output Connection (quantity) (type)		4								Hardwired output is standard					
		IEC-320 (10A) male connector								Contact Factory for receptacle options					
Typical Runtime:	(Full Load)	9	14	11	18	14	11	9	14	10	20	12	11	18	10
(minutes) ((Half Load)	25	35	28	48	37	30	25	35	24	50	33	26	48	26
Operation															
Nominal Input Voltage								220/230	/240						
Input Voltage Range								+15%, -	20%						
Operating Frequency		50 Hz Nominal (adjustable limits $^+$ 0.01 Hz to $^+$ 3Hz													
Nominal Output Voltage								220/230	/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% for10 min. on line, 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 - >60dB													
Efficiency		85	86	85	88	88	90	90	91	90	90	90	90	91	92
Safety Certification		UL 1778, CSA (cUL), GS (TUV), Complies with European Low Voltage Directive 73/23/EEC													
EMI Compliance		FCC Class A, Complies with European Electromagnetic Compatibility Directve 89/336/EEC													
Testing Standards		ANSI/EEE C62.41 (1980); ANSI/EEE C62.45 (1987); IEC 801-2, 801-4, 801-5													
		EN 50081-1, EN 500082-1, EN 500091-1, EN 500091-2, EN60950													
Communication		RS-232 serial port (DB-25), plus contact closures													
Environmental															
Operating Temperature		0 to 40° C													
Storage Temperature								-20° C to	+60° C						
Relative Humidity							0 to 95	% withou	ıt conden	sation					
Audible Noise at 1m		41	41	47	49	49	51	51	51	50	51	54	55	56	57
Altitude				<u> </u>			3, 050	n (10,000	ft.) max	imum	<u> </u>	<u> </u>	<u> </u>	<u> </u>	
All specifications typic	cal and are su	bject to ch	ange wi	thout not	ice.										

Powerware offers a complete line of Uninterruptible Power Systems from 250VA to more than 4000kVA.

^{*120} V Standard Configuration

^{**}Batteries in second cabinet. Contact factory for weights and dimensions.