

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 fully charged from unexpected blackouts
- ▶ Complete offering of power management software included to ensure data integrity

Triple Power Warranty

(U.S. and Canada)

- ▶ 10-Year Pro-Rated Warranty
- ▶ 60-Day Money Back Guarantee
- ▶ \$25,000 Load Protection Guarantee

FERRUPS® FE Series 50Hz

Unrivalled 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, 208/240
Output Voltage:	220/230/240
Frequency:	50 Hz
Configuration:	Cabinet

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 is covered by the industry's longest warranty and 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	QFE1.8kVA	QFE2.1kVA	QFE3.1kVA	QFE4.3kVA	QFE5.3kVA	QFE7kVA	QFE10kVA	QFE12.5kVA	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 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**		
H x W x D (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 (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 (10A) male connector								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 (quantity) (type)	4 IEC-320 (10A) male connector								Hardwired output is standard Contact Factory for receptacle options						
Typical Runtime: (Full Load) (minutes)	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	220/230/240											208/240			
Input Voltage Range	+15%, -20%														
Operating Frequency	50 Hz Nominal (adjustable limits \pm 0.01 Hz to \pm 3Hz)														
Nominal Output Voltage	220/230/240														
Output Voltage Regulation	\pm 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 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 Directive 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% without condensation														
Audible Noise at 1m	41	41	47	49	49	51	51	51	50	51	52	55	56	57	
Altitude	3, 050m (10,000 ft.) maximum														
<i>All specifications subject to change without notice.</i>															

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.