Eaton FERRUPS FE Series 50 Hz



Eaton® FERRUPS® uninterruptible power systems (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's-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); and 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 US\$250,000 for damage to connected equipment resulting from a spike or surge (U.S. and Canada only).

Product Snapshot

 Rating:
 500 VA - 10 kVA

 Input Voltage:
 220/230/240

 Output Voltage:
 220/230/240

 Frequency:
 50 Hz

 Configuration:
 Tower



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

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 LanSafe® management software included to ensure data integrity
- Enables automatic shutdown of UPS-protected devices with NetWatch 5.0 software
- Warranty
 - 2-Year Limited Warranty
 - \$250,000 Load Protection Guarantee (U.S. and Canada)



Technical 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
Model Num	ber	QFE500 VA	QFE700 VA	QFE850 VA	QFE1.15 kVA	QFE1.4 kVA	QFE1.8 kVA	QFE2.1 kVA	QFE3.1 kVA	QFE4.3 kVA	QFE5.3 kVA	QFE7 kVA	QFE10 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
Dimensions	(inches)	1	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)	3	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
	(kg)	28	36	39	60	70	83	89	116	163	229	274	397
Input Connection									IEC-320	220/19A	220/21A	220/27A	220/43A
				IEC-3	20 (10A) mal	e connector			(16A) male	230/18A	230/20A	230/26A	230/41A
									connector	240/17A	240/19A	240/24A	240/39A
Output	(quantity)				4				-		Н	lardwired o	utput is standard
Connection (type)				IEC-3	320 (10A) male connector					Contact		Factory for receptacle options	
Typical (I	Full Load)	9	14	11	18	14	11	9	14	10	20	12	11
Runtime: (H	Half Load)	25	35	28	48	37	30	25	35	24	50	33	26
	(minutes)												
Operation													
Nominal Inp	out Voltag	e						220/230/240					
Input Voltag	ge Range							+15%, -20%					
Operating F	requency					50 Hz	Nominal (a	djustable lim	its +_ 0.01 Hz	to +_ 3Hz			
Nominal Ou	tput Volta	ge						220/230/240					
Output Volta	age Regul	ation				±	3% for input	voltages of	+15% to -20%)			
Output Volta	age Wave	form						Sine wave	!				
Output Volta	age THD						5% or I	ess at rated	kW load				
Overload Ca	apacity				150% surge	and 125% for	10 min. on li	ine, 150% su	ge and 110%	for 10 minu	tes on inverte	er	
Transfer Tim	ne							0 ms					
Lightning, S	Surge & No	oise Protec	tion	20	00:1 spike att	enuation usi	ng ANSI/IEE	E C62.41 and	C62.45 Cate	gory A and (Category B te	sts.	
						Comr	non Mode -	>120 dB. No	rmal Mode -	>60dB			
Efficiency		85	86	85	88	88	90	90	91	90	90	90	90
Safety Certi	ification				UL 1778, CS/	A (cUL), GS (1	ΓUV), Compl	ies with Euro	pean Low Vo	ltage Direct	ive 73/23/EEC	;	
EMI Compli	ance			F	CC Class A,	Complies wit	h European	Electromagn	etic Compati	bility Direct	re 89/336/EEC		
Testing Star	ndards				ANSI	EEE C62.41 (1980); ANSI,	EEE C62.45 (1987); IEC 801	-2, 801-4, 80)1-5		
						N 50081-1, E	N 500082-1,	EN 500091-1	, EN 500091-2	, EN60950			
Communica	ition					RS-232	2 serial port	(DB-25), plus	s contact clos	sures			
Environme	ental												
Operating T		re						0 to 40° C					
Storage Ten							-7	20° C to +60°	С				
Relative Hu	•							ithout conde					
Audible Noi	· ·	41	41	47	49	49	51	51	51	50	51	54	55

All specifications typical and are subject to change without notice. Eaton offers a complete line of uninterruptible power systems from 250 VA to more than 4000 kVA.

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