

Powerware FERRUPS Tower UPS 50HZ Technical Specs

Operation

Part No.	QFE 500 VA	QFE 700 VA	QFE 850 VA	QFE 1.15 kVA	QFE 1.4 kVA	QFE 1.8 kVA	QFE 2.1 kVA	QFE 3.1 kVA	QFE 4.3 kVA	QFE 5.3 kVA	QFE 7 kVA	QFE 10 kVA	QFE 12.5 kVA	QFE 18 kVA
Nominal Input Voltage	220/230/240													
Input Voltage Range	+15%, -20%													
Operating Frequency	50 Hz Nominal (adjustable limits +_0.01 Hz to +_3 Hz)													
Nominal Output Voltage	220/230/240													
Output Voltage Regulation	±3% for input voltages +15% to -20%													
Output Voltage Waveform	Sine Wave													
Output Voltage THD	6% or less 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 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/IEEE C62.41 (1980); ANSI/IEEE C62.45 (1987); IEC 801-2, 801-4, 801-5 EN 50081-1, EN 500082-1, EN 500091-1, EN 500091-2, EN 60950													
Communication	RS-232 serial port (DB-25), plus contact closures													

Environmental

Operating Temperature	0 to 40°C													
Storage Temperature	-20° to +60° C													
Relative Humidity	0 to 95% without condensation													
Audible Noise (dBA)	41	41	47	49	49	51	51	51	50	51	52	55	56	57
Altitude	3050 m (10,000 ft.) maximum													

Model Guide	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 No.	QFE 500 VA	QFE 700 VA	QFE 850 VA	QFE 1.15 kVA	QFE 1.4 kVA	QFE 1.8 kVA	QFE 2.1 kVA	QFE 3.1 kVA	QFE 4.3 kVA	QFE 5.3 kVA	QFE 7 kVA	QFE 10 kVA	QFE 12.5 kVA	QFE 18 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 HxWxD	inches mm 12x10x21.25 305x255x540			15.1x15.2x20.2 385x390x515			21.2x15.25x22.9 540x390x585		29.5x15.5x25 750x395x635		36.5x19x32 930x485x815 Dimensions are for the UPS only on 10-18 kVA (does not include battery pack)					
Weight	lb KG		62 28	80 36	86 39	132 60	154 70	183 83	196 89	256 116	360 163	505 229	605 274	875 397	1341 609	1300 589
Input Connection	IEC-320 (10A) male connector							IEC-320 (16A) Mule Connector	220/19A 230/18A 240/17A	220/21A 230/20A 240/19A	220/27A 230/26A 240/24A	220/43A 230/41A 240/39A	220/43A 230/41A 240/39A	220/81A 230/78A 240/75A		
Output Connection	(quantity) Connection (type)	4 IEC-320 (10A) male connector							Hardwired output is standard. Contact Factory for receptacle options							
Typical Runtime: (minutes)	Full load	9	14	11	18	14	11	9	14	8	20	12	11	18	10	
	Half load	25	35	28	48	37	30	25	35	20	50	33	26	48	26	

Powerware offers a complete line of Uninterruptible Power Systems from 250 VA to more than 4000 kVA. All specifications subject to change without notice.