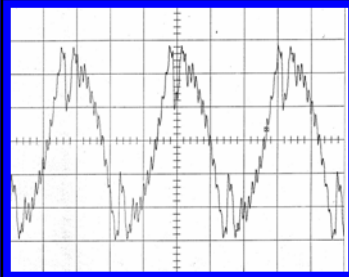




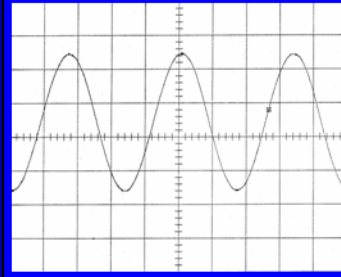
FH Series™ Biomedical & Laboratory-Grade UPS

3kVA-10kVA

Dirty Power In



Clean Power Out



Specifically Designed for Use in Biomedical and Laboratory Applications

Falcon Electric, Inc. has been manufacturing battery backup and power protection products for use in biomedical and laboratory applications throughout the world for two decades.

Our On-line uninterruptible power system (UPS) technology has maximized throughput for customers like Siemens, Merck-Rosetta Inpharmatics, Cordis, Los Alamos National Labs, Thoratec, NASA, Novartis, Applied Materials and Lawrence Livermore National Labs.

The applications cover the entire spectrum from forensics, scientific and hospital laboratories to semiconductor production and uranium fuel processing.

Falcon Electric's FH Series™ Biomedical & Laboratory-Grade UPS has been designed to provide the protection, performance and reliability demanded by the exacting and critical nature of your work.

The True Regenerative On-line UPS Design Assures Test Completion and Accurate Results

Most UPS products available are not designed to meet the demands of laboratory instruments. They pass raw utility or generator power directly through to your sensitive equipment, only providing basic conditioning and battery backup.

The FH Series is a True Regenerative On-line UPS and continuously generates the highest quality clean, regulated sinewave power to your equipment. This continuously eliminates the widest spectrum of power problems. Test completion is assured as the FH UPS provides flawless, no-break battery backup.

The FH Series eliminates costly lost reagents and test samples, while assuring accurate test results.

The waveforms shown above are an actual demonstration of the FH Series' ability to clean up dirty utility or generator power.

Solves Localized Problems and is Laboratory Friendly

The FH Series' input isolation eliminates computer-related problems associated with common mode noise and building grounding. This is especially important in older buildings where wiring and grounding are substandard.

All FH models have a low input leakage current specification well under the 300 μ A requirement requested by hospital biomedical laboratories.

The FH UPS can be easily programmed for use as a 50Hz or 60Hz frequency converter.

Hot-Swappable Batteries and Extended Run Times

FH Series models feature user-replaceable, hot-swappable battery packs that allow you to easily slide the pack out through the front panel. Replacement can be accomplished while the UPS continues to power the critical load

The FH Series UPS supports the addition of optional external battery banks providing up to several hours of battery backup. Whether your process requires a few additional minutes or hours to complete, the FH Biomedical & Laboratory-Grade UPS is ready.

Advanced Protection:

- * True Double-Conversion On-line Sinewave Design
- * Precision Output Voltage Regulation & Low Distortion Sinewave Output Assures Accurate Test Results
- * "No Break" Battery Backup Eliminates Loss of Costly Reagents & Assures Completion of Critical Tests
- * Eliminates Utility & Generator Related Power Problems
- * Meets < 300 Micro-ampere Input Leakage Requirements
- * Input Galvanic Isolation Helps Resolve Electrical System Problems in Older Buildings
- * Input Power Factor Correction Prevents Excessive Building Power System Harmonics & Interference with Other Sensitive Equipment
- * Units may be Configured In Parallel to Provide N+1 Redundant Operation, Assuring No Downtime During Operation or Servicing

Falcon engineers are available to specify the exact model for your instrument

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FH Series™ Biomedical & Laboratory UPS PLUS® 3kVA

Model Number	FH3K-X2T
Maximum VA Rating (non-N+1)	3000
Electrical Input	
Nominal AC Voltage	200 to 240Vac
Voltage Window	184-260Vac (default) or 195-260Vac (Programmable)
Current-Amps (non-N+1)	14.5A
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)
Power Factor Correction	> 0.95
Galvanic Isolation	Input Fully Isolated
Leakage Current	<300µA
Efficiency (AC-AC)	85% Typical
(Battery Mode)	80%
Electrical Output	
Watts	2,100
N+1 Redundant Mode	N/A
Fixed Frequency Output Mode	2,100
Voltage	200, 208, 230 or 240Vac (Programmable)
Voltage Regulation	±2%
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)
Frequency	50/60 Hz (Synchronized Auto-Tracking) or 50 Hz and 60Hz (Programmable Fixed Output)
Frequency Stability	±0.2% (Fixed frequency operation) Fixed frequency output available in non-parallel configurations only.
Frequency Window	±1 Hz or ±3 Hz (Programmable, Auto-Tracking mode)
Harmonic Distortion	5% Typical
Crest Ratio	3:1
Battery	
DC Voltage	240Vdc
Type	12V, 7AH Sealed Lead Acid Maintenance-Free (20 pieces)
Charger Current	1.5A
Back Up Time @ Full Load	22 Minutes
@ 1/2 Load	56 Minutes
Recharge Time	4 Hours to 90%
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel
Battery times are approximate.	
Transfer Time	
Line Fails/Recovers	0 ms
UPS to Bypass or Reverse	0-1 ms
After Overload	Auto Transfer to UPS
Electrical Connections	
Input	8 foot line cord with L6-30P Plug (two wire plus ground)
Output	(1) L14-30R Receptacle (three wire plus ground)
Environmental	
Operating Temperature	0° C - 40° C (32° F to 104° F)
Humidity	10% to 95% Non – Condensing
Altitude	10,000 Feet
Cooling	Low Velocity Forced Air Fans
Audible Noise @ 1 Meter	50 dbA
Controls and Indicators	
Status on LCD & LED	Line mode, Backup mode, ECO (green) mode, Bypass, Low Battery, Defective Battery, Overload, UPS Alarm, Transferring with interruption
LCD Displayed Readings	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Internal Temperature
Self-Diagnostics	At power up, Manual front panel button, Software control and Selectable 24-hour automatic self-test
Audible Alarms	Utility Loss, Low Battery, Overload, Transfer to Bypass and UPS Failure
Communications	RS 232 Serial Port (UPSilon 2000 software upon request)
Mechanical	
UPS Dimensions H x W x D inches (mm)	34.75 x 11.5 x 25.4 (881 x 290 x 645)
UPS Weight lb. (kg)	385 (175)
Optional Ext. Battery Bank Dimensions H x W x D inches (mm)	29.5 x 11.5 x 25.4 (748 x 290 x 645)
Optional Ext. Battery Backup Time FHB1S9 FHB2S9 FHB3S9	56 minutes full load, 137 minutes at 50% load 95 minutes full load, 226 minutes at 50% load 137 minutes full load, 321 minutes at 50% load
Optional Ext. Battery Bank Weight FHB1S9 FHB2S9 FSB3S9 Lb. (kg)	180 (81.7) 290 (131.6) 400 (181.5)

FH Series™ Biomedical & Laboratory UPS PLUS® 4kVA

Model Number	FH4K-X2T
Maximum VA Rating (non-N+1)	4000

Electrical Input

Nominal AC Voltage	200 to 240Vac
Voltage Window	184-260Vac (default) or 195-260Vac (Programmable)
Current-Amps (non-N+1)	19.3A
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)
Power Factor Correction	> 0.95
Galvanic Isolation	Input Fully Isolated
Leakage Current	<300µA
Efficiency (AC-AC)	85% Typical
(Battery Mode)	80%

Electrical Output

Watts	2,800
N+1 Redundant Mode	N/A
Fixed Frequency Output Mode	2,800
Voltage	200, 208, 230 or 240Vac (Programmable)
Voltage Regulation	±2%
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)
Frequency	50/60 Hz (Synchronized Auto-Tracking) or 50 Hz and 60Hz (Programmable Fixed Output)
Frequency Stability	±0.2% (Fixed frequency operation) Fixed frequency output available in non-parallel configurations only
Frequency Window	±1 Hz or ±3 Hz (Programmable, Auto-Tracking mode)
Harmonic Distortion	5% Typical
Crest Ratio	3:1

Battery

DC Voltage	240Vdc
Type	12V, 7AH Sealed Lead Acid Maintenance-Free (20 pieces)
Charger Current	1.5A
Back Up Time @ Full Load	15 Minutes
@ 1/2 Load	38 Minutes
Recharge Time	4 Hours to 90%
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel

Battery times are approximate.

Transfer Time

Line Fails/Recovers	0 ms
UPS to Bypass or Reverse	0-1 ms
After Overload	Auto Transfer to UPS

Electrical Connections

Input	8 foot line cord with L6-30P Plug (two wire plus ground)
Output	(1) L14-30R Receptacle (three wire plus ground)

Environmental

Operating Temperature	0° C - 40° C (32° F to 104° F)
Humidity	10% to 95% Non – Condensing
Altitude	10,000 Feet
Cooling	Low Velocity Forced Air Fans
Audible Noise @ 1 Meter	50 dbA

Controls and Indicators

Status on LCD & LED	Line mode, Backup mode, ECO (green) mode, Bypass, Low Battery, Defective Battery, Overload, UPS Alarm, Transferring with interruption
LCD Displayed Readings	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Internal Temperature
Self-Diagnostics	At power up, Manual front panel button, Software control and Selectable 24-hour automatic self-test
Audible Alarms	Utility Loss, Low Battery, Overload, Transfer to Bypass and UPS Failure
Communications	RS 232 Serial Port (UPSilon 2000 software upon request)

Mechanical

UPS Dimensions	H x W x D inches (mm)	34.75 x 11.5 x 25.4 (881 x 290 x 645)
UPS Weight	lb. (kg)	385 (175)
Optional Ext. Battery Bank Dimensions	H x W x D inches (mm)	29.5 x 11.5 x 25.4 (748 x 290 x 645)
Optional Ext. Battery Backup Time	FHB1S9 FHB2S9 FHB3S9	38 minutes full load, 95 minutes at 50% load 66 minutes full load, 158 minutes at 50% load 95 minutes full load, 226 minutes at 50% load
Optional Ext. Battery Bank Weight	FHB1S9 FHB2S9 FSB3S9	180 (81.7) 290 (131.6) 400 (181.5)
	Lb. (kg)	

FH Series™ Biomedical & Laboratory UPS PLUS® 5kVA

Model Number	FH5K-X2T
Maximum VA Rating (non-N+1)	5000
Electrical Input	
Nominal AC Voltage	200 to 240Vac
Voltage Window	184-260Vac (default) or 195-260Vac (Programmable)
Current-Amps (non-N+1)	24A
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)
Power Factor Correction	> 0.95
Galvanic Isolation	Input Fully Isolated
Leakage Current	<300µA
Efficiency (AC-AC) (Battery Mode)	85% Typical 80%

Electrical Output	
Watts	3,500
N+1 Redundant Mode	N/A
Fixed Frequency Output Mode	2,625
Voltage	200, 208, 230 or 240Vac (Programmable)
Voltage Regulation	±2%
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)
Frequency	50/60 Hz (Synchronized Auto-Tracking) or 50 Hz and 60Hz (Programmable Fixed Output)
Frequency Stability	±0.2% (Fixed frequency operation) Fixed frequency output available in non-parallel configurations only
Frequency Window	±1 Hz or ±3 Hz (Programmable, Auto-Tracking mode)
Harmonic Distortion	5% Typical
Crest Ratio	3:1

Battery	
DC Voltage	240Vdc
Type	12V, 7AH Sealed Lead Acid Maintenance-Free (20 pieces)
Charger Current	1.5A
Back Up Time @ Full Load	10 Minutes
@ 1/2 Load	28 Minutes
Recharge Time	4 Hours to 90%
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel

Battery times are approximate.

Transfer Time

Line Fails/Recovers	0 ms
UPS to Bypass or Reverse	0-1 ms
After Overload	Auto Transfer to UPS

Electrical Connections

Input	8 foot line cord with L6-30P Plug (two wire plus ground)
Output	(1) L14-30R Receptacle (three wire plus ground)

Environmental

Operating Temperature	0° C - 40° C (32° F to 104° F)
Humidity	10% to 95% Non – Condensing
Altitude	10,000 Feet
Cooling	Low Velocity Forced Air Fans
Audible Noise @ 1 Meter	50 dbA

Controls and Indicators

Status on LCD & LED	Line mode, Backup mode, ECO (green) mode, Bypass, Low Battery, Defective Battery, Overload, UPS Alarm, Transferring with interruption
LCD Displayed Readings	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Internal Temperature
Self-Diagnostics	At power up, Manual front panel button, Software control and Selectable 24-hour automatic self-test
Audible Alarms	Utility Loss, Low Battery, Overload, Transfer to Bypass and UPS Failure
Communications	RS 232 Serial Port (UPSilon 2000 software upon request)

Mechanical

UPS Dimensions	H x W x D inches (mm)	34.75 x 11.5 x 25.4 (881 x 290 x 645)
UPS Weight	lb. (kg)	385 (175)
Optional Ext. Battery Bank Dimensions	H x W x D inches (mm)	29.5 x 11.5 x 25.4 (748 x 290 x 645)
Optional Ext. Battery Backup Time		28 minutes full load, 71 minutes at 50% load 49 minutes full load, 120 minutes at 50% load 71 minutes full load, 172 minutes at 50% load
Optional Ext. Battery Bank Weight		180 (81.7) 290 (131.6) 400 (181.5)
FHB1S9		180 (81.7)
FHB2S9		290 (131.6)
FSB3S9	Lb. (kg)	400 (181.5)

FH Series™ Biomedical & Laboratory UPS PLUS® 6kVA

Model Number	FH6K-X2T	
Maximum VA Rating (non-N+1)	6000	
Electrical Input		
Nominal AC Voltage	200 to 240Vac	
Voltage Window	184-260Vac (default) or 195-260Vac (Programmable)	
Current-Amps (non-N+1)	29A	
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)	
Power Factor Correction	> 0.95	
Galvanic Isolation	Input Fully Isolated	
Leakage Current	<300µA	
Efficiency (AC-AC) (Battery Mode)	85% Typical 80%	
Electrical Output		
Watts	4,200	
N+1 Redundant Mode	N/A	
Fixed Frequency Output Mode	3,000	
Voltage	200, 208, 230 or 240Vac (Programmable)	
Voltage Regulation	±2%	
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)	
Frequency	50/60 Hz (Synchronized Auto-Tracking) or 50 Hz and 60Hz (Programmable Fixed Output)	
Frequency Stability	±0.2% (Fixed frequency operation) Fixed frequency output available in non-parallel configurations only	
Frequency Window	±1 Hz or ±3 Hz (Programmable, Auto-Tracking mode)	
Harmonic Distortion	5% Typical	
Crest Ratio	3:1	
Battery		
DC Voltage	240Vdc	
Type	12V, 7AH Sealed Lead Acid Maintenance-Free (20 pieces)	
Charger Current	1.5A	
Back Up Time @ Full Load	8 Minutes	
@ 1/2 Load	22 Minutes	
Recharge Time	4 Hours to 90%	
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel	
Battery times are approximate.		
Transfer Time		
Line Fails/Recovers	0 ms	
UPS to Bypass or Reverse	0-1 ms	
After Overload	Auto Transfer to UPS	
Electrical Connections		
Input	8 foot line cord with L6-50P Plug (two wire plus ground)	
Output	(1) L14-30R Receptacle (three wire plus ground)	
Environmental		
Operating Temperature	0° C - 40° C (32° F to 104° F)	
Humidity	10% to 95% Non – Condensing	
Altitude	10,000 Feet	
Cooling	Low Velocity Forced Air Fans	
Audible Noise @ 1 Meter	50 dbA	
Controls and Indicators		
Status on LCD & LED	Line mode, Backup mode, ECO (green) mode, Bypass, Low Battery, Defective Battery, Overload, UPS Alarm, Transferring with interruption	
LCD Displayed Readings	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Internal Temperature	
Self-Diagnostics	At power up, Manual front panel button, Software control and Selectable 24-hour automatic self-test	
Audible Alarms	Utility Loss, Low Battery, Overload, Transfer to Bypass and UPS Failure	
Communications	RS 232 Serial Port (UPSilon 2000 software upon request)	
Mechanical		
UPS Dimensions	H x W x D inches (mm)	34.75 x 11.5 x 25.4 (881 x 290 x 645)
UPS Weight	lb. (kg)	385 (175)
Optional Ext. Battery Bank Dimensions	H x W x D inches (mm)	29.5 x 11.5 x 25.4 (748 x 290 x 645)
Optional Ext. Battery Backup Time		
FHB1S9	22 minutes full load, 56 minutes at 50% load	
FHB2S9	38 minutes full load, 95 minutes at 50% load	
FHB3S9	56 minutes full load, 137 minutes at 50% load	
Optional Ext. Battery Bank Weight		
FHB1S9	180 (81.7)	
FHB2S9	290 (131.6)	
FSB3S9	Lb. (kg)	400 (181.5)

FH Series™ Biomedical & Laboratory UPS PLUS® 8kVA

Model Number	FH8K-X2T
Maximum VA Rating (non-N+1)	8000
Electrical Input	
Nominal AC Voltage	200 to 240Vac
Voltage Window	184-260Vac (default) or 195-260Vac (Programmable)
Current-Amps (non-N+1)	40A Max
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)
Power Factor Correction	> 0.95
Galvanic Isolation	Input Fully Isolated
Leakage Current	<300 μ A
Efficiency (AC-AC) (Battery Mode)	85% Typical 80%

Electrical Output	
Watts	5,600
N+1 Redundant Mode	N/A
Fixed Frequency Output Mode	4200
Voltage	200, 208, 230 or 240Vac (Programmable)
Voltage Regulation	\pm 2%
Voltage Adjustment	\pm 0%, \pm 1%, \pm 2% or \pm 3% (Programmable)
Frequency	50/60 Hz (Synchronized Auto-Tracking) or 50 Hz and 60Hz (Programmable Fixed Output)
Frequency Stability	\pm 0.2% (Fixed frequency operation) Fixed frequency output available in non-parallel configurations only
Frequency Window	\pm 1 Hz or \pm 3 Hz (Programmable, Auto-Tracking mode)
Harmonic Distortion	5% Typical
Crest Ratio	3:1

Battery	
DC Voltage	240Vdc
Type	12V, 9AH Sealed Lead Acid Maintenance-Free (20 pieces)
Charger Current	1.5A
Back Up Time @ Full Load	8 Minutes
@ 1/2 Load	17 Minutes
Recharge Time	4 Hours to 90%
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel

Battery times are approximate.

Transfer Time

Line Fails/Recovers	0 ms
UPS to Bypass or Reverse	0-1 ms
After Overload	Auto Transfer to UPS

Electrical Connections

Input	8 foot line cord with L6-50P Plug (two wire plus ground)
Output	(2) L14-30R Receptacle (three wire plus ground)

Environmental

Operating Temperature	0° C - 40° C (32° F to 104° F)
Humidity	10% to 95% Non – Condensing
Altitude	10,000 Feet
Cooling	Low Velocity Forced Air Fans
Audible Noise @ 1 Meter	50 dbA

Controls and Indicators

Status on LCD & LED	Line mode, Backup mode, ECO (green) mode, Bypass, Low Battery, Defective Battery, Overload, UPS Alarm, Transferring with interruption
LCD Displayed Readings	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Internal Temperature
Self-Diagnostics	At power up, Manual front panel button, Software control and Selectable 24-hour automatic self-test
Audible Alarms	Utility Loss, Low Battery, Overload, Transfer to Bypass and UPS Failure
Communications	RS 232 Serial Port (UPSilon 2000 software upon request)

Mechanical

UPS Dimensions	H x W x D inches (mm)	34.75 x 11.5 x 25.4 (881 x 290 x 645)
UPS Weight	lb. (kg)	422 (191.4)
Optional Ext. Battery Bank Dimensions	H x W x D inches (mm)	29.5 x 11.5 x 25.4 (748 x 290 x 645)
Optional Ext. Battery Backup Time		21 minutes full load, 54 minutes at 50% load 37 minutes full load, 91 minutes at 50% load 54 minutes full load, 131 minutes at 50% load
Optional Ext. Battery Bank Weight		
FHB1S9		180 (81.7)
FHB2S9		290 (131.6)
FSB3S9	Lb. (kg)	400 (181.5)

FH Series™ Biomedical & Laboratory UPS PLUS® 10kVA

Model Number	FH10-X2T	
Maximum VA Rating (non-N+1)	10,000	
Electrical Input		
Nominal AC Voltage	200 to 240Vac	
Voltage Window	184-260Vac (default) or 195-260Vac (Programmable)	
Current-Amps (non-N+1)	50A	
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)	
Power Factor Correction	> 0.95	
Galvanic Isolation	Input Fully Isolated	
Leakage Current	<300µA	
Efficiency (AC-AC)	85% Typical	
(Battery Mode)	80%	
Electrical Output		
Watts	7,000	
N+1 Redundant Mode	N/A	
Fixed Frequency Output Mode	5,250	
Voltage	200, 208, 230 or 240Vac (Programmable)	
Voltage Regulation	±2%	
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)	
Frequency	50/60 Hz (Synchronized Auto-Tracking) or 50 Hz and 60Hz (Programmable Fixed Output)	
Frequency Stability	±0.2% (Fixed frequency operation) Fixed frequency output available in non-parallel configurations only	
Frequency Window	±1 Hz or ±3 Hz (Programmable, Auto-Tracking mode)	
Harmonic Distortion	5% Typical	
Crest Ratio	3:1	
Battery		
DC Voltage	240Vdc	
Type	12V, 9AH Sealed Lead Acid Maintenance-Free (20 pieces)	
Charger Current	1.5A	
Back Up Time @ Full Load	5.5 Minutes	
@ 1/2 Load	15 Minutes	
Recharge Time	4 Hours to 90%	
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel	
Battery times are approximate.		
Transfer Time		
Line Fails/Recovers	0 ms	
UPS to Bypass or Reverse	0-1 ms	
After Overload	Auto Transfer to UPS	
Electrical Connections		
Input	8 foot line cord with Hubbell HBL363P6W IEC309 Style Plug (two wire plus ground)	
Output	(2) L14-30R Receptacle (three wire plus ground)	
Environmental		
Operating Temperature	0° C - 40° C (32° F to 104° F)	
Humidity	10% to 95% Non – Condensing	
Altitude	10,000 Feet	
Cooling	Low Velocity Forced Air Fans	
Audible Noise @ 1 Meter	50 dbA	
Controls and Indicators		
Status on LCD & LED	Line mode, Backup mode, ECO (green) mode, Bypass, Low Battery, Defective Battery, Overload, UPS Alarm, Transferring with interruption	
LCD Displayed Readings	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage, Internal Temperature	
Self-Diagnostics	At power up, Manual front panel button, Software control and Selectable 24-hour automatic self-test	
Audible Alarms	Utility Loss, Low Battery, Overload, Transfer to Bypass and UPS Failure	
Communications	RS 232 Serial Port (UPSilon 2000 software upon request)	
Mechanical		
UPS Dimensions	H x W x D inches (mm)	34.75 x 11.5 x 25.4 (881 x 290 x 645)
UPS Weight	lb. (kg)	422 (191.4)
Optional Ext. Battery Bank Dimensions	H x W x D inches (mm)	29.5 x 11.5 x 25.4 (748 x 290 x 645)
Optional Ext. Battery Backup Time		
FHB1S9		15 minutes full load, 40 minutes at 50% load
FHB2S9		27 minutes full load, 68 minutes at 50% load
FHB3S9		40 minutes full load, 98 minutes at 50% load
Optional Ext. Battery Bank Weight		
FHB1S9		180 (81.7)
FHB2S9		290 (131.6)
FSB3S9	Lb. (kg)	400 (181.5)

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