



# FN Series™ Parallelable UPS

## 3kVA to 40kVA

### Advanced Features:

- \* Parallel Units with a Single Output of up to 40kVA
- \* True N+1 Redundancy
- \* DSP Double-Conversion On-line Sinewave Design
- \* Input Power Factor Correction
- \* Hot-Swappable User Replaceable Batteries
- \* LCD Display with Advanced Monitoring for Easy UPS Management
- \* Programmable 50/60Hz Frequency Conversion
- \* Remote Emergency Power Off (REPO)
- \* Wide Input Voltage Window
- \* Precision Output Voltage Regulation
- \* Superior Brownout, Surge & Transient Protection
- \* Optional Extended Battery Banks & Chargers
- \* RS-232C, USB & Optional SNMP/HTTP Agent
- \* UPSilon® UPS Monitoring & Management Software



### Parallel Units up to 40kVA

Businesses today rely on absolute system availability and scalability. The Falcon® Electric FN Parallelable, N+1 Redundant On-line Uninterruptible Power Supply (UPS) provides the ideal solution. The FN UPS can easily be configured using individual 3, 4, 5, 6, 8 or 10kVA models, providing up to 30kVA with N+1 redundancy. Alternate parallel configurations of 6 to 40kVA are achievable if N+1 redundancy is not required.

### Stand-Alone Units Lower Costs

In contrast to most modular scalable Uninterruptible Power Supplies, the FN Series are stand-alone units that may be connected in parallel. This economical approach eliminates the added expense of buying cabinets to house control, power and battery modules.

### True Regenerative On-line Design

The FN Series True Regenerative On-Line UPS provides the highest level of protection against the widest spectrum of power problems. The incoming AC utility source is converted to a regulated DC voltage. From this DC voltage, a new AC voltage is generated, providing clean, tightly regulated power to your equipment.

### N+1 Redundancy Ensures Reliability

If your equipment has to operate without interruption or downtime, the N+1 configured FN UPS is the clear choice. Should an individual UPS require maintenance, the UPS is automatically sensed and taken offline. The user is notified through the LCD display and an audible alarm.

The unit may be serviced or replaced without the remaining UPS(es) or connected load having to be powered down. Internal UPS batteries are user-replaceable and hot-swappable, again while the UPS(es) and connected equipment are in full operation.

### Microprocessor Control with DSP

Falcon Electric's FN UPS has been designed using advanced Digital Signal Processing (DSP) microprocessor technology. DSP technology yields the highest level of internal UPS protection, control, performance and reliability.

### Frequency Converter Ready

The FN UPS Plus is easily programmed for use as a 50Hz or 60Hz frequency converter, making the FN Series UPS Plus the ideal choice for worldwide power applications.

### RS-232, USB & SNMP/HTTP UPS Management

With the supplied UPSilon® software, all models support unattended shutdown, UPS management, data logging and a power diagnostic tool. The software supports all Windows® platforms including Version 7 and Server Version 2008 R2, Novell NetWare® 5 & 6, LINUX and FreeBSD. UPSilon for UNIX is available at an additional cost and supports most popular UNIX platform and OS versions.

Falcon's optional SNMP/HTTP agent board provides IPv4 and IPv6 addressable remote management and monitoring over any 10/100 Ethernet LAN, WAN or the Internet. The agent board installs via a communications expansion slot located on the back of every FN Series model. Client software is supplied that supports the shutdown of multiple workstations and servers via the network.

Falcon Electric, Inc.  
5116 Azusa Canyon Road  
Irwindale, CA 91706  
Toll-Free: 800.842.6940  
Fax: 626.962.7720  
Email: sales@falconups.com  
www.falconups.com

Model Number	FN3K-2TXI	FN3K-2TXI	FN3K-2TXI	FN3K-2TXI
Number of Parallel Units	1	2	3	4
N+1 VA Rating	N/A	3,000	6,000	9,000
Maximum VA Rating (non-N+1)	3,000	6,000	9,000	12,000
<b>Electrical Input</b>				
Nominal AC Voltage	208 or 240Vac (Please specify the input voltage at the time of order)			
Voltage Range	160Vac – 280Vac			
Bypass Voltage Window	184-260Vac or 195-260Vac (Programmable)			
Current-Amps (system) N+1 (non-N+1)	N/A 14.5A	14.5A 29A	29A 44A	N/A 58A
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)			
Power Factor Correction	> 0.95			
Efficiency AC-AC (Battery Mode)	Up to 90% (85%)			
<b>Electrical Output</b>				
Watts	2,100	4,200	6,300	8,400
N+1 Redundant Mode	N/A	2,100	4,200	6,300
Voltage (Isolated)	Please specify the desired output voltage configuration at the time of initial order Note: Two 120Vac transformer output taps may be connected in parallel to provide a single 120Vac output 240/120Vac Split-Phase (3 wire plus ground) may also be configured 208Vac, 220Vac, 230Vac or 240Vac output voltage may be set			
Overload Capability	<105% of 2100 Watts continuous output (each UPS), 115% of 2100 Watts for 83 Seconds (each UPS) 125% of 2100 Watts for 25 seconds (each UPS), 150% of 2100 Watts for 320 milliseconds (each UPS)			
Voltage Regulation	-2 Model UPS Module ±2% -2TXI Model With Output Transformer Module ±3%			
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)			
Frequency	50/60 Hz ± 5 Hz (Synchronized Auto-Tracking) or 50 Hz and 60 Hz (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			
<b>Battery</b>				
DC Voltage	240Vdc			
Type	12V, 7AH Sealed Lead Acid Maintenance-Free (20 pieces)			
Charger Current	1.5A			
Back Up Time @ Full Load @ 1/2 Load	25.5 Minutes, 61 Minutes			
Recharge Time	4 Hours to 90%			
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel			
<b>Transfer Time</b>				
Line Fails/Recovers	0 ms			
UPS to Bypass or Reverse	0-1 ms			
After Overload	Auto Transfer to UPS			
<b>Electrical Connections</b>				
Input	Hardwire Terminal Block			
Output	Hardwire Terminal Block			
REPO	Hardwire Connector Supplied			
<b>Environmental</b>				
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			
<b>Controls and Indicators</b>				
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 with programmable 24-hour automatic self-test			
Audible Alarms	Utility Loss, Low Battery, Transfer to Bypass and UPS Failure			
Communications	RS-232 Serial Port (Bundled UPSilon Software) & REPO Connector			
<b>Mechanical</b>				
UPS Dimensions H x W x D inches	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)
Number of cabinets (mm)	1	2	3	4
UPS Weight lb. (kg)	286.6 (129.9)	573.2 (259.9)	859.8 (390)	1146.4 (520)
Optional External Battery Bank Dimensions H x W x D	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)
Optional External Battery Bank Weight	1	2	3	4
SGB1S7-6K6 lb. (kg)	360 (163.3)	720 (326.6)	1080 (489.9)	1440 (635.1)
SGB2S7-6K6 lb. (kg)	720 (326.5)	1400 (635.1)	2160 (979.8)	2880 (1306.4)
Agency Listing	UL 1778 & cUL Listed, CE and FCC Class A			

# FN Series™ UPS

# 4kVA - 16kVA

Model Number	FN4K-2TXI	FN4K-2TXI	FN4K-2TXI	FN4K-2TXI
Number of Parallel Units	1	2	3	4
N+1 VA Rating	N/A	4,000	8,000	12,000
Maximum VA Rating (non-N+1)	4,000	8,000	12,000	16,000
<b>Electrical Input</b>				
Nominal AC Voltage	208 or 240Vac (Please specify the input voltage at the time of order)			
Voltage Range	160Vac – 280Vac			
Bypass Voltage Window	184-260Vac or 195-260Vac (Programmable)			
Current-Amps (system) N+1 (non-N+1)	N/A 19.3A	19.3A 38.5A	38.5A 58A	N/A 77A
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)			
Power Factor Correction	> 0.95			
Efficiency AC-AC (Battery Mode)	Up to 90% (85%)			
<b>Electrical Output</b>				
Watts	2,800	5,200	8,400	11,200
N+1 Redundant Mode	N/A	2,800	5,200	8,400
Voltage (Isolated)	Please specify the desired output voltage configuration at the time of initial order Note: Two 120Vac transformer output taps may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground) may also be configured 208Vac, 220Vac, 230Vac or 240Vac output voltage may be set			
Overload Capability	<105% of 2100 Watts continuous output (each UPS), 115% of 2100 Watts for 83 Seconds (each UPS) 125% of 2100 Watts for 25 seconds (each UPS), 150% of 2100 Watts for 320 milliseconds (each UPS)			
Voltage Regulation	-2 Model UPS Module ±2% -2TXI Model With Output Transformer Module ±3%			
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)			
Frequency	50/60 Hz ± 5 Hz (Synchronized Auto-Tracking) or 50 Hz and 60 Hz (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			
<b>Battery</b>				
DC Voltage	240Vdc			
Type	12V, 7AH Sealed Lead Acid Maintenance-Free (20 pieces)			
Charger Current	1.5A			
Back Up Time @ Full Load @ 1/2 Load	15.5 Minutes, 37.5 Minutes			
Recharge Time	4 Hours to 90%			
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel			
<b>Transfer Time</b>				
Line Fails/Recovers	0 ms			
UPS to Bypass or Reverse	0-1 ms			
After Overload	Auto Transfer to UPS			
<b>Electrical Connections</b>				
Input	Hardwire Terminal Block			
Output	Hardwire Terminal Block			
REPO	Hardwire Connector Supplied			
<b>Environmental</b>				
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			
<b>Controls and Indicators</b>				
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 with programmable 24-hour automatic self-test			
Audible Alarms	Utility Loss, Low Battery, Transfer to Bypass and UPS Failure			
Communications	RS-232 Serial Port (Bundled UPSilon Software) & REPO Connector			
<b>Mechanical</b>				
UPS Dimensions H x W x D inches (mm)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)
Number of cabinets	1	2	3	4
UPS Weight lb. (kg)	286.6 (129.9)	573.2 (259.9)	859.8 (390)	1146.4 (520)
Optional External Battery Bank Dimensions H x W x D	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)
Optional External Battery Bank Weight	1	2	3	4
SGB1S7-6K6 lb. (kg)	360 (163.3)	720 (326.6)	1080 (489.9)	1440 (635.1)
SGB2S7-6K6 lb. (kg)	720 (326.5)	1400 (635.1)	2160 (979.8)	2880 (1306.4)
Agency Listing	UL 1778 & cUL Listed, CE and FCC Class A			

Model Number	FN5K-2TXI	FN5K-2TXI	FN5K-2TXI	FN5K-2TXI
Number of Parallel Units	1	2	3	4
N+1 VA Rating	N/A	5,000	10,000	15,000
Maximum VA Rating (non-N+1)	5,000	10,000	15,000	20,000
<b>Electrical Input</b>				
Nominal AC Voltage	208 or 240Vac (Please specify the input voltage at the time of order)			
Voltage Range	160Vac – 280Vac			
Bypass Voltage Window	184-260Vac or 195-260Vac (Programmable)			
Current-Amps (system) N+1 (non-N+1)	N/A 24A	24A 57A	57A 70A	N/A 93A
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)			
Power Factor Correction	> 0.95			
Efficiency AC-AC (Battery Mode)	Up to 90% (85%)			
<b>Electrical Output</b>				
Watts N+1 Redundant Mode	3,500 N/A	7,000 3,500	10,500 7,000	14,000 10,500
Voltage (Isolated)	Please specify the desired output voltage configuration at the time of initial order Note: Two 120Vac transformer output taps may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground) may also be configured 208Vac, 220Vac, 230Vac or 240Vac output voltage may be set			
Overload Capability	<105% of 2100 Watts continuous output (each UPS), 115% of 2100 Watts for 83 Seconds (each UPS) 125% of 2100 Watts for 25 seconds (each UPS), 150% of 2100 Watts for 320 milliseconds (each UPS)			
Voltage Regulation	-2 Model UPS Module ±2% -2TXI Model With Output Transformer Module ±3%			
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)			
Frequency	50/60 Hz ± 5 Hz (Synchronized Auto-Tracking) or 50 Hz and 60 Hz (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			
<b>Battery</b>				
DC Voltage	240Vdc			
Type	12V, 7AH Sealed Lead Acid Maintenance-Free (20 pieces)			
Charger Current	1.5A			
Back Up Time @ Full Load @ 1/2 Load	11 Minutes, 30.6 Minutes			
Recharge Time	4 Hours to 90%			
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel			
<b>Transfer Time</b>				
Line Fails/Recovers	0 ms			
UPS to Bypass or Reverse	0-1 ms			
After Overload	Auto Transfer to UPS			
<b>Electrical Connections</b>				
Input	Hardwire Terminal Block			
Output	Hardwire Terminal Block			
REPO	Hardwire Connector Supplied			
<b>Environmental</b>				
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			
<b>Controls and Indicators</b>				
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 with programmable 24-hour automatic self-test			
Audible Alarms	Utility Loss, Low Battery, Transfer to Bypass and UPS Failure			
Communications	RS-232 Serial Port (Bundled UPSilon Software) & REPO Connector			
<b>Mechanical</b>				
UPS Dimensions H x W x D inches (mm)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)
Number of cabinets	1	2	3	4
UPS Weight lb. (kg)	286.6 (129.9)	573.2 (259.9)	859.8 (390)	1146.4 (520)
Optional External Battery Bank Dimensions H x W x D	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)
Optional External Battery Bank Weight	1	2	3	4
SGB1S7-6K6 lb. (kg)	360 (163.3)	720 (326.6)	1080 (489.9)	1440 (635.1)
SGB2S7-6K6 lb. (kg)	720 (326.5)	1400 (635.1)	2160 (979.8)	2880 (1306.4)
Agency Listing	UL 1778 & cUL Listed, CE and FCC Class A			

Model Number	FN6K-2TXI	FN6K-2TXI	FN6K-2TXI	FN6K-2TXI
<b>Number of Parallel Units</b>	1	2	3	4
N+1 VA Rating	N/A	6,000	12,000	18,000
Maximum VA Rating (non-N+1)	6,000	12,000	18,000	24,000
<b>Electrical Input</b>				
Nominal AC Voltage	208 or 240Vac (Please specify the input voltage at the time of order)			
Voltage Range	160Vac – 280Vac			
Bypass Voltage Window	184-260Vac or 195-260Vac (Programmable)			
Current-Amps (system) N+1 (non-N+1)	N/A 29A	29A 68A	68A 87A	N/A 116A
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)			
Power Factor Correction	> 0.95			
Efficiency AC-AC (Battery Mode)	Up to 90% (85%)			
<b>Electrical Output</b>				
Watts N+1 Redundant Mode	4,200 N/A	8,400 4,200	12,600 8,400	16,800 12,600
Voltage (Isolated)	Please specify the desired output voltage configuration at the time of initial order Note: Two 120Vac transformer output taps may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground) may also be configured 208Vac, 220Vac, 230Vac or 240Vac output voltage may be set			
Overload Capability	<105% of 2100 Watts continuous output (each UPS), 115% of 2100 Watts for 83 Seconds (each UPS) 125% of 2100 Watts for 25 seconds (each UPS), 150% of 2100 Watts for 320 milliseconds (each UPS)			
Voltage Regulation	-2 Model UPS Module ±2% -2TXI Model With Output Transformer Module ±3%			
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)			
Frequency	50/60 Hz ± 5 Hz (Synchronized Auto-Tracking) or 50 Hz and 60 Hz (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			
<b>Battery</b>				
DC Voltage	240Vdc			
Type	12V, 7AH Sealed Lead Acid Maintenance-Free (20 pieces)			
Charger Current	1.5A			
Back Up Time @ Full Load @ 1/2 Load	9.3 Minutes, 25 Minutes			
Recharge Time	4 Hours to 90%			
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel			
<b>Transfer Time</b>				
Line Fails/Recovers	0 ms			
UPS to Bypass or Reverse	0-1 ms			
After Overload	Auto Transfer to UPS			
<b>Electrical Connections</b>				
Input	Hardwire Terminal Block			
Output	Hardwire Terminal Block			
REPO	Hardwire Connector Supplied			
<b>Environmental</b>				
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			
<b>Controls and Indicators</b>				
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 with programmable 24-hour automatic self-test			
Audible Alarms	Utility Loss, Low Battery, Transfer to Bypass and UPS Failure			
Communications	RS-232 Serial Port (Bundled UPSilon Software) & REPO Connector			
<b>Mechanical</b>				
UPS Dimensions H x W x D inches (mm)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)
Number of cabinets (mm)	1	2	3	4
UPS Weight lb. (kg)	286.6 (129.9)	573.2 (259.9)	859.8 (390)	1146.4 (520)
Optional External Battery Bank Dimensions H x W x D	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)
Optional External Battery Bank Weight	1	2	3	4
SGB1S7-6K6 lb. (kg)	360 (163.3)	720 (326.6)	1080 (489.9)	1440 (635.1)
SGB2S7-6K6 lb. (kg)	720 (326.5)	1400 (635.1)	2160 (979.8)	2880 (1306.4)
Agency Listing	UL 1778 & cUL Listed, CE and FCC Class A			

Model Number	FN8K-2TXI	FN8K-2TXI	FN8K-2TXI	FN8K-2TXI
<b>Number of Parallel Units</b>	1	2	3	4
N+1 VA Rating	N/A	8,000	16,000	24,000
Maximum VA Rating (non-N+1)	8,000	16,000	24,000	32,000
<b>Electrical Input</b>				
Nominal AC Voltage	208 or 240Vac (Please specify the input voltage at the time of order)			
Voltage Range	160Vac – 280Vac			
Bypass Voltage Window	184-260Vac or 195-260Vac (Programmable)			
Current-Amps (system) N+1 (non-N+1)	N/A 40A	40A 80A	80A 120A	N/A 160A
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)			
Power Factor Correction	> 0.95			
Efficiency AC-AC (Battery Mode)	Up to 90% (85%)			
<b>Electrical Output</b>				
Watts N+1 Redundant Mode	5,600 N/A	11,200 5,600	16,800 11,200	22,400 16,800
Voltage (Isolated)	Please specify the desired output voltage configuration at the time of initial order Note: Two 120Vac transformer output taps may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground) may also be configured 208Vac, 220Vac, 230Vac or 240Vac output voltage may be set			
Overload Capability	<105% of 2100 Watts continuous output (each UPS), 115% of 2100 Watts for 83 Seconds (each UPS) 125% of 2100 Watts for 25 seconds (each UPS), 150% of 2100 Watts for 320 milliseconds (each UPS)			
Voltage Regulation	-2 Model UPS Module ±2% -2TXI Model With Output Transformer Module ±3%			
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)			
Frequency	50/60 Hz ± 5 Hz (Synchronized Auto-Tracking) or 50 Hz and 60 Hz (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			
<b>Battery</b>				
DC Voltage	240Vdc			
Type	12V, 9AH Sealed Lead Acid Maintenance-Free (20 pieces)			
Charger Current	1.5A			
Back Up Time @ Full Load @ 1/2 Load	7 Minutes, 21 Minutes			
Recharge Time	4 Hours to 90%			
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel			
<b>Transfer Time</b>				
Line Fails/Recovers	0 ms			
UPS to Bypass or Reverse	0-1 ms			
After Overload	Auto Transfer to UPS			
<b>Electrical Connections</b>				
Input	Hardwire Terminal Block			
Output	Hardwire Terminal Block			
REPO	Hardwire Connector Supplied			
<b>Environmental</b>				
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			
<b>Controls and Indicators</b>				
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 with programmable 24-hour automatic self-test			
Audible Alarms	Utility Loss, Low Battery, Transfer to Bypass and UPS Failure			
Communications	RS-232 Serial Port (Bundled UPSilon Software) & REPO Connector			
<b>Mechanical</b>				
UPS Dimensions H x W x D inches (mm)	34.7 x 11.5 x 24.3 (881 x 290 x 645)	34.7 x 11.5 x 24.3 (881 x 290 x 645)	34.7 x 11.5 x 24.3 (881 x 290 x 645)	34.7 x 11.5 x 24.3 (881 x 290 x 645)
Number of cabinets (mm)	1	2	3	4
UPS Weight lb. (kg)	286.6 (129.9)	573.2 (259.9)	859.8 (390)	1146.4 (520)
Optional External Battery Bank Dimensions H x W x D	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)	29.5 x 11.5 x 24.3 (748 x 290 x 645)
Optional External Battery Bank Weight	1	2	3	4
SGB1S9-6K6 lb. (kg)	360 (163.3)	720 (326.6)	1080 (489.9)	1440 (635.1)
SGB2S9-6K6 lb. (kg)	720 (326.5)	1400 (635.1)	2160 (979.8)	2880 (1306.4)
Agency Listing	UL 1778 & cUL Listed, CE and FCC Class A			

Model Number	FN10K-2TXI	FN10K-2TXI	FN10K-2TXI	FN10K-2TXI
Number of Parallel Units	1	2	3	4
N+1 VA Rating	N/A	10,000	20,000	30,000
Maximum VA Rating (non-N+1)	10,000	20,000	30,000	40,000
<b>Electrical Input</b>				
Nominal AC Voltage	208 or 240Vac (Please specify the input voltage at the time of order)			
Voltage Range	160Vac – 280Vac			
Bypass Voltage Window	184-260Vac or 195-260Vac (Programmable)			
Current-Amps (system) N+1 (non-N+1)	N/A 50A	50A 100A	100A 150A	N/A 200A
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)			
Power Factor Correction	> 0.95			
Efficiency AC-AC (Battery Mode)	Up to 90% (85%)			
<b>Electrical Output</b>				
Watts	7,000	14,000	21,000	28,000
N+1 Redundant Mode	N/A	7,000	14,000	21,000
Voltage (Isolated)	Please specify the desired output voltage configuration at the time of initial order Note: Two 120Vac transformer output taps may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground) may also be configured 208Vac, 220Vac, 230Vac or 240Vac output voltage may be set			
Overload Capability	<105% of 2100 Watts continuous output (each UPS), 115% of 2100 Watts for 83 Seconds (each UPS) 125% of 2100 Watts for 25 seconds (each UPS), 150% of 2100 Watts for 320 milliseconds (each UPS)			
Voltage Regulation	-2 Model UPS Module ±2% -2TXI Model With Output Transformer Module ±3%			
Voltage Adjustment	±0%, ±1%, ±2% or ±3% (Programmable)			
Frequency	50/60 Hz ± 5 Hz (Synchronized Auto-Tracking) or 50 Hz and 60 Hz (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			
<b>Battery</b>				
DC Voltage	240Vdc			
Type	12V, 9AH Sealed Lead Acid Maintenance-Free (20 pieces)			
Charger Current	1.5A			
Back Up Time @ Full Load @ 1/2 Load	5.5 Minutes, 15 Minutes			
Recharge Time	4 Hours to 90%			
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel			
<b>Transfer Time</b>				
Line Fails/Recovers	0 ms			
UPS to Bypass or Reverse	0-1 ms			
After Overload	Auto Transfer to UPS			
<b>Electrical Connections</b>				
Input	Hardwire Terminal Block			
Output	Hardwire Terminal Block			
REPO	Hardwire Connector Supplied			
<b>Environmental</b>				
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			
<b>Controls and Indicators</b>				
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 with programmable 24-hour automatic self-test			
Audible Alarms	Utility Loss, Low Battery, Transfer to Bypass and UPS Failure			
Communications	RS-232 Serial Port (Bundled UPSilon Software) & REPO Connector			
<b>Mechanical</b>				
UPS Dimensions H x W x D inches (mm)	34.7 x 11.5 x 24.3 (881 x 290 x 645)	34.7 x 11.5 x 24.3 (881 x 290 x 645)	34.7 x 11.5 x 24.3 (881 x 290 x 645)	34.7 x 11.5 x 24.3 (881 x 290 x 645)
Number of cabinets	1	2	3	4
UPS Weight lb. (kg)	286.6 (129.9)	573.2 (259.9)	859.8 (390)	1146.4 (520)
Optional External Battery Bank Dimensions H x W x D	32.1 x 10.2 x 21.8 (815.4 x 269.1 x 553.8)	32.1 x 10.2 x 21.8 (815.4 x 269.1 x 553.8)	32.1 x 10.2 x 21.8 (815.4 x 269.1 x 553.8)	32.1 x 10.2 x 21.8 (815.4 x 269.1 x 553.8)
Optional External Battery Bank Weight	1	2	3	4
SGB1S9-6K6 lb. (kg)	360 (163.3)	720 (326.6)	1080 (489.9)	1440 (635.1)
SGB2S9-6K6 lb. (kg)	720 (326.5)	1400 (635.1)	2160 (979.8)	2880 (1306.4)
Agency Listing	UL 1778 & cUL Listed, CE and FCC Class A			

©2012 Falcon® Electric, Inc. All rights reserved. Falcon® and the Falcon Electric logo are registered trademarks of Falcon Electric, Inc.

All other brand names and trademarks are the property of their respective owners.

The information and specifications stated in this document are subject to change without notice.

03-13-2012