

FN Series Scalable N+1 UPS

3kVA to 40kVA Tower

Advanced Features:

- * Parallel Units with a Single Output of up to 40kVA
- * True N+1 Redundancy
- * ECO Mode: 97% Efficiency
- * DSP Double-Conversion On-line Sinewave Design
- * Input Power Factor
 Correction
- * Programmable 50/60Hz Frequency Conversion
- * Precision Output Voltage Regulation
- * Extended Brownout, Surge & Transient Protection
- * Remote Emergency Power Off (REPO)
- * Optional Extended Battery Banks & Chargers
- * RS-232C, USB & Optional SNMP/HTTP Agent

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Scalable Tower UPS up to 40kVA

Falcon® Electric's scalable N+1 on-line Uninterruptible Power Supply (UPS) provides the ideal scalable power protection solution. The FN UPS can easily be configured using individual 3, 4, 5, 6, 8 or 10kVA tower 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 UPSs, the FN is a compact, stand-alone UPS that can be connected in parallel. This economical approach eliminates the added expense of buying cabinets to house control, power and battery modules.

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 UPS may be serviced or replaced without powering down the remaining models or connected load. Internal batteries are user-replaceable and hot-swappable, while the UPS and connected equipment are in full operation.

Frequency Converter Ready

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

ECO Mode Saves Energy

The unit's "ECO Green Mode" setting increases the AC/AC efficiency up to 97% during times when the connected equipment is not in use. Falcon's ECO Mode reduces energy consumption, cooling expense and CO2 emissions.

In addition, the FN UPS features input power factor correction which lowers current demands on building wiring. When not in ECO Mode, the FN operates at a 90% AC/AC efficiency level, further reducing energy demands.

True Regenerative On-line Design

The FN Series True Regenerative Online 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.

Microprocessor Control with DSP

The FN Series 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.

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® and other major platforms. For UNIX users, UPSilon is available as an option. Falcon also offers an optional SNMP/HTTP agent board.

3kVA - 12kVA

Madal Number	ENION OTAL	ENDV OTVI	ENDV OTVI	ENDV OTVI
Model Number Number of Parallel Units	FN3K-2TXI 1	FN3K-2TXI 2	FN3K-2TXI 3	FN3K-2TXI 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
Electrical Input				
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	N/A	14.5A	29A	N/A
(non-N+1)	14.5A	29A	44A	58A
Frequency	50/60	Hz (Synchronized Auto – Tracking) or	, , ,	onized)
Power Factor Correction		> 0		
Efficiency AC/AC		Up to 90%, ECO Mode to	97%, Battery Mode 85%	
Electrical Output	0.400	4.000	0.000	0.400
Watts N+1 Redundant Mode	2,100 N/A	4,200 2,100	6,300 4,200	8,400 6,300
Voltage (Isolated)		ease specify the desired output voltage	<u> </u>	· · · · · · · · · · · · · · · · · · ·
		/ac transformer output taps may be co 240/120Vac Split-Phase (3 wire plu		
Overload Capability		00 Watts continuous output (each UPS) Watts for 25 seconds (each UPS), 15	50% of 2100 Watts for 320 millisecond	
Voltage Regulation			3%	
Voltage Adjustment	E0/00 II + E II + C	±0%, ±1%, ±2% or ±		100 - 1 - 1
Frequency Stability	. ,	d Auto-Tracking) or 50 Hz and 60 Hz 75% when programmed t	for fixed output frequency	,
Frequency Stability Frequency Window	±U.2% (FIXED	frequency operation) Fixed frequency ±1 Hz or ±3 Hz (Programm	• •	gurations only
Harmonic Distortion		, ,	ypical	
			урісаі :1	
Crest Ratio		3	.1	
DC Voltage		240	Vdc	
			Maintenance-Free (20 pieces)	
Type Charger Current			5A	
Back Up Time (Full Load /Half Load)				
Recharge Time	25.5 Minutes, 61 Minutes 4 Hours to 90%			
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel			
Transfer Time	Hot-Owappanie α Oser-περιασεαυίε Hillough Removable Florit Panel			
Line Fails/Recovers	0 ms			
UPS to Bypass or Reverse		0-1	ms	
After Overload		Auto Trans	sfer to UPS	
Electrical Connections				
Input		Hardwire Terminal Block		
Output	Hardwire Terminal Block			
REPO	Hardwire Connector Supplied			
Environmental				
Operating Temperature		0°C - 40°C (32	2° 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		quency, Output Voltage, Output Frequ		•
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			
Mechanical				
UPS Dimensions HxWxD (inches) (mm) Number of cabinets	29.5 x 11.5 x 24.3 (748 x 290 x 645) 1	29.5 x 11.5 x 24.3 (748 x 290 x 645) 2	29.5 x 11.5 x 24.3 (748 x 290 x 645) 3	29.5 x 11.5 x 24.3 (748 x 290 x 645) 4
UPS Weight lb. (kg)	286.6 (129.9)	573.2 (259.9)	859.8 (390)	1146.4 (520)
Optional External Battery HxWxD (inches) Bank Dimensions (mm)	32.1 x 10.2 x 21.8 (815 x 259 x 554) 1	32.1 x 10.2 x 21.8 (815 x 259 x 554) 2	32.1 x 10.2 x 21.8 (815 x 259 x 554) 3	32.1 x 10.2 x 21.8 (815 x 259 x 554) 4
Optional External Battery Bank Weight SGB1S7-6K6 lb. (kg) SGB2S7-6K6 lb. (kg) Number of cabinets	238 (107) 360 (163.3) 1	476 (215) 720 (326.6) 2	714 (323) 1080 (489.9) 3	952 (431) 1440 (635.1) 4
Agency Approvals	UL 1778 & cUL Listed, CE and FCC Class A			
	OL 1770 & COL Listey, OE diffu FOO Class A			

4kVA - 16kVA

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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
Electrical Input				
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 195-260	OVac (Programmable)	
Current-Amps (system) N+1	N/A	19.3A	38.5A	N/A
(non N+1)	19.3A	38.5A	58A	77A
Frequency	50/60	Hz (Synchronized Auto – Tracking) or	47-63 Hz (Programmable Unsynchror	nized)
Power Factor Correction		> 0.		,
Efficiency AC/AC		Up to 90%, ECO Mode to	97% Battery Mode 85%	
Electrical Output		op to 50%, 200 mous to	5. 70, Datie. yeac co 70	
Watts	2,800	5,600	8,400	11,200
N+1 Redundant Mode	N/A	2,800	5,600	8,400
Voltage (Isolated)		ease specify the desired output voltage /ac transformer output taps may be cor 240/120Vac Split-Phase (3 wire plu	nnected in parallel to provide a single	
		208Vac, 220Vac, 230Vac or 240		
Overload Capability		00 Watts continuous output (each UPS) Watts for 25 seconds (each UPS), 15		
Voltage Regulation		±3°	%	
Voltage Adjustment		±0%, ±1%, ±2% or ±3	3% (Programmable)	
Frequency	50/60 Hz ± 5 Hz (Synchronized Auto	o-Tracking) or 50 Hz and 60 Hz (Progra programmed for fixe		tput capacity derated to 75% wh
Frequency Stability	±0.2% (Fixed	frequency operation) Fixed frequency	output available in non-parallel config	urations only
Frequency Window		±1 Hz or ±3 Hz (Programma	able, Auto-Tracking mode)	
Harmonic Distortion		5% Ty	pical	
Crest Ratio		3:		
Battery				
DC Voltage	Γ	240\	/dc	
		12V, 7AH Sealed Lead Acid M		
Type				
Charger Current	1.5A			
Back Up Time (Full Load /Half Load)	15.5 Minutes, 37.5 Minutes			
Recharge Time	4 Hours to 90%			
Replacement	Hot-Swappable & User-Replaceable Through Removable Front Panel			
Transfer Time				
Line Fails/Recovers	0 ms			
UPS to Bypass or Reverse	0-1 ms			
After Overload	Auto Transfer to UPS			
Electrical Connections				
Input		Hardwire Ter	minal Block	
Output	Hardwire Terminal Block Hardwire Terminal Block			
REPO	Hardwire Terminal Block Hardwire Connector Supplied			
		nardwire Corine	ector Supplied	
Environmental			25.4.4040.5	
Operating Temperature	0°C - 40°C (32° F to 104° F)			
Humidity		10% to 95% Nor	-	
Altitude	10,000 Feet			
Cooling	Low Velocity Forced Air Fans			
Audible Noise @ 1 Meter		50 d	bA	
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				· · · · · · · · · · · · · · · · · · ·
Audible Alarms	At power up, Manual front panel button & Software control with programmable 24-hour automatic self-test			
Communications	Utility Loss, Low Battery, Transfer to Bypass and UPS Failure RS-232 Serial Port (Bundled UPSilon Software) & REPO Connector			
		113-232 Serial Port (Bundled UPS)	ion Soliware, & REPO Connector	
Mechanical				1
JPS Dimensions HxWxD (inches) (mm) Number of cabinets	29.5 x 11.5 x 24.3 (748 x 290 x 645) 1	29.5 x 11.5 x 24.3 (748 x 290 x 645) 2	29.5 x 11.5 x 24.3 (748 x 290 x 645) 3	29.5 x 11.5 x 24.3 (748 x 290 x 645) 4
UPS Weight Ib. (kg)	286.6 (129.9)	573.2 (259.9)	859.8 (390)	1146.4 (520)
	` ′		` ′	` '
Optional External Battery HxWxD (inches) Bank Dimensions (mm) Number of cabinets	32.1 x 10.2 x 21.8 (815 x 259 x 554) 1	32.1 x 10.2 x 21.8 (815 x 259 x 554) 2	32.1 x 10.2 x 21.8 (815 x 259 x 554) 3	32.1 x 10.2 x 21.8 (815 x 259 x 554) 4
Optional External Battery Bank Weight SGB1S7-6K6 lb. (kg) SGB2S7-6K6 lb. (kg)	238 (107) 360 (163.3)	476 (215) 720 (326.6)	714 (323) 1080 (489.9)	952 (431) 1440 (635.1)
Number of cabinets	1	2	3	4
Agency Approvals	UL 1778 & cUL Listed, CE and FCC Class A			

5kVA - 20kVA

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	
Electrical Input					
Nominal AC Voltage	208 or 240Vac (Please specify the input voltage at the time of order)				
Voltage Range			- 280Vac		
Bypass Voltage Window		184-260Vac or 195-26	60Vac (Programmable)		
Current-Amps (system) N+1 (non-N+1)	N/A 24A	24A 48A	48A 72A	N/A 96A	
Frequency	50/60	Hz (Synchronized Auto – Tracking) o	r 47-63 Hz (Programmable Unsynchro	onized)	
Power Factor Correction		> 0).95		
Efficiency AC/AC		Up to 90%, ECO Mode to	97%, Battery Mode 85%		
Electrical Output					
Watts N+1 Redundant Mode	3,500 N/A	7,000 3,500	10,500 7,000	14,000 10,500	
Voltage (Isolated)		ac transformer output taps may be co 240/120Vac Split-Phase (3 wire pl	e configuration at the time of initial or onnected in parallel to provide a single us ground) may also be configured 0Vac output voltage may be set		
Overload Capability			S), 115% of 3500 Watts for 83 Second 50% of 3500 Watts for 320 millisecond		
Voltage Regulation		±3	3%		
Voltage Adjustment		±0%, ±1%, ±2% or ±	±3% (Programmable)		
Frequency	50/60 Hz ± 5 Hz (Synchro		O Hz (Programmable Fixed Output) Numed for fixed output frequency	lote: UPS output capacity	
Frequency Stability	±0.2% (Fixed	frequency operation) Fixed frequency	/ output available in non-parallel confi	gurations only	
Frequency Window		±1 Hz or ±3 Hz (Programm	nable, Auto-Tracking mode)		
Harmonic Distortion		5% T	ypical		
Crest Ratio		3	:1		
Battery					
DC Voltage		240	Vdc		
Туре		12V, 7AH Sealed Lead Acid I	Maintenance-Free (20 pieces)		
Charger Current		1.9	5A		
Back Up Time (Full Load /Half Load)		11 Minutes,	30.6 Minutes		
Recharge Time		4 Hours	s to 90%		
Replacement		Hot-Swappable & User-Replaceat	ole Through Removable Front Panel		
Transfer Time					
Line Fails/Recovers		0 ms			
UPS to Bypass or Reverse		0-1	ms		
After Overload		Auto Trans	sfer to UPS		
Electrical Connections					
Input		Hardwire Te	rminal Block		
Output	Hardwire Terminal Block				
REPO	Hardwire Connector Supplied				
Environmental					
Operating Temperature		0°C - 40°C (32	2° F to 104° F)		
Humidity	10% to 95% Non – Condensing				
Altitude		10,00	0 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 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				
Mechanical					
UPS Dimensions HxWxD (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 Ib. (kg)	286.6 (129.9)	573.2 (259.9)	859.8 (390)	1146.4 (520)	
Optional External Battery HxWxD (inches) Bank Dimensions (mm) Number of cabinets	32.1 x 10.2 x 21.8 (815 x 259 x 554) 1	32.1 x 10.2 x 21.8 (815 x 259 x 554) 2	32.1 x 10.2 x 21.8 (815 x 259 x 554) 3	32.1 x 10.2 x 21.8 (815 x 259 x 554) 4	
Optional External Battery Bank Weight SGB1S7-6K6 lb. (kg) SGB2S7-6K6 lb. (kg)	238 (107) 360 (163.3) 1	476 (215) 720 (326.6) 2	714 (323) 1080 (489.9) 3	952 (431) 1440 (635.1) 4	
Number of cabinets	'			T	
Agency Approvals	UL 1778 & cUL Listed, CE and FCC Class A				

6kVA - 24kVA

Model Number	FN6K-2TXI	FN6K-2TXI	FN6K-2TXI	FN6K-2TXI	
Number of Parallel Units	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	
Electrical Input					
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	N/A	29A	58A	N/A	
(non-N+1)	29A	58A	87A	116A	
Frequency	50/60		r 47-63 Hz (Programmable Unsynchro	onized)	
Power Factor Correction			0.95		
Efficiency AC/AC		Up to 90%, ECO Mode to	97%, Battery Mode 85%		
Electrical Output		T	I		
Watts N+1 Redundant Mode	4,200 N/A	8,400 4,200	12,600 8,400	16,800 12,600	
Voltage (Isolated)		·	e configuration at the time of initial ord	·	
voltage (isolated)		ac transformer output taps may be co	onnected in parallel to provide a single		
			us ground) may also be configured		
0 1 10 10	1050/ 5 105		0Vac output voltage may be set	. (
Overload Capability			S), 115% of 4200 Watts for 83 Second 50% of 4200 Watts for 320 millisecond		
Voltage Regulation	.23,5 31 1200	, ,,	3%		
Voltage Adjustment			±3% (Programmable)		
Frequency	50/60 Hz + 5 Hz (Synchr		60 Hz (Programmable Fixed Output) N	lote: UPS output capacity	
	55/00 FIZ 2 0 FIZ (OYIIOIII		imed for fixed output frequency	S. Saspar Supusity	
Frequency Stability	±0.2% (Fixed	frequency operation) Fixed frequency	y output available in non-parallel confi	gurations only	
Frequency Window		±1 Hz or ±3 Hz (Programm	nable, Auto-Tracking mode)	-	
Harmonic Distortion			ypical		
Crest Ratio			:1		
Battery					
DC Voltage		240)Vdc		
Туре			Maintenance-Free (20 pieces)		
Charger Current		·	· · · ·		
Back Up Time (Full Load /Half Load)	1.5A 9.3 Minutes, 25 Minutes				
Recharge Time	· · · · · · · · · · · · · · · · · · ·				
Replacement	4 Hours to 90% Hot-Swappable & User-Replaceable Through Removable Front Panel				
Transfer Time		пос омаррамо и обог портабова	sie mileugh Kemevasie Frenk Faher		
Line Fails/Recovers		0.1	ms		
UPS to Bypass or Reverse			ms		
After Overload			sfer to UPS		
Electrical Connections		Auto Irans	36. 10 01 0		
Input		Hardwire To	erminal Plack		
- ·	Hardwire Terminal Block				
REPO	Hardwire Terminal Block Hardwire Connector Supplied				
Environmental		Traidwire Corn	lector Supplied		
Operating Temperature		0°C - 40°C (3°	2º E to 104º E)		
	0°C - 40°C (32° F to 104° F)				
Humidity Altitude	10% to 95% Non – Condensing				
	10,000 Feet				
Cooling	Low Velocity Forced Air Fans				
Audible Noise @ 1 Meter	50 dbA				
Controls and Indicators	Line made Dealum made ECO (mass) made Disease Law Deltar, Defect a Deltar, October 1920 May 7 confest a 1921 May				
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				
Mechanical		T	1		
UPS Dimensions HxWxD (inches) Number of Cabinets (mm) Number of cabinets	29.5 x 11.5 x 24.3 (748 x 290 x 645) 1	29.5 x 11.5 x 24.3 (748 x 290 x 645) 2	29.5 x 11.5 x 24.3 (748 x 290 x 645) 3	29.5 x 11.5 x 24.3 (748 x 290 x 645) 4	
UPS Weight lb. (kg)	286.6 (129.9)	573.2 (259.9)	859.8 (390)	1146.4 (520)	
Optional External Battery HxWxD (inches)	32.1 x 10.2 x 21.8	32.1 x 10.2 x 21.8	32.1 x 10.2 x 21.8	32.1 x 10.2 x 21.8	
Bank Dimensions (mm)	(815 x 259 x 554)	(815 x 259 x 554)	(815 x 259 x 554)	(815 x 259 x 554)	
Number of cabinets	1	2	3	4	
Optional External Battery Bank Weight SGB1S7-6K6 lb. (kg) SGB2S7-6K6 lb. (kg)	238 (107) 360 (163.3)	476 (215) 720 (326.6)	714 (323) 1080 (489.9)	952 (431) 1440 (635.1)	
Number of cabinets	1	2	3	4	
Agency Approvals	UL 1778 & cUL Listed, CE and FCC Class A				

8kVA - 32kVA

Model Number	FN8K-2TXI	FN8K-2TXI	FN8K-2TXI	FN8K-2TXI
Number of Parallel Units	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
Electrical Input				
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 195-26	60Vac (Programmable)	
Current-Amps (system) N+1 (non-N+1)	N/A 39A	39A 77A	77A 116A	N/A 154A
Frequency	50/60	Hz (Synchronized Auto – Tracking) or	r 47-63 Hz (Programmable Unsynchro	onized)
Power Factor Correction		> 0).95	
Efficiency AC/AC		Up to 90%, ECO Mode to	97%, Battery Mode 85%	
Electrical Output				
Watts N+1 Redundant Mode	5,600 N/A	11,200 5,600	16,800 11,200	22,400 16,800
Voltage (Isolated)		·	e configuration at the time of initial or	<u> </u>
voltage (isolateu)		ac transformer output taps may be co 240/120Vac Split-Phase (3 wire pl	onnected in parallel to provide a single us ground) may also be configured 0Vac output voltage may be set	
Overload Capability			S), 115% of 5600 Watts for 83 Second 50% of 5600 Watts for 320 millisecond	
Voltage Regulation		±3	3%	
Voltage Adjustment		±0%, ±1%, ±2% or ±	±3% (Programmable)	
Frequency	50/60 Hz ± 5 Hz (Synchr		60 Hz (Programmable Fixed Output) Named for fixed output frequency	lote: UPS output capacity
Frequency Stability	±0.2% (Fixed	frequency operation) Fixed frequency	y output available in non-parallel confi	gurations only
Frequency Window		±1 Hz or ±3 Hz (Programm	nable, Auto-Tracking mode)	-
Harmonic Distortion		5% T	ypical	
Crest Ratio		3	:1	
Battery				
DC Voltage		240	Vdc	
Туре		12V, 9AH Sealed Lead Acid I	Maintenance-Free (20 pieces)	
Charger Current		1.8	5A	
Back Up Time (Full Load /Half Load)		7 Minutes,	21 Minutes	
Recharge Time		4 Hours	s to 90%	
Replacement		Hot-Swappable & User-Replaceat	ole Through Removable Front Panel	
Transfer Time				
Line Fails/Recovers		0 ו	ms	
UPS to Bypass or Reverse		0-1	ms	
After Overload		Auto Trans	sfer to UPS	
Electrical Connections				
Input	Hardwire Terminal Block			
Output	Hardwire Terminal Block			
REPO		Hardwire Conr	nector Supplied	
Environmental				
Operating Temperature			2° 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	Line made Dealess and ECO (mass) made Disease Law Deffers Defer De			
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 Communications	Utility Loss, Low Battery, Transfer to Bypass and UPS Failure RS-232 Serial Port (Bundled UPSilon Software) & REPO Connector			
Mechanical	103-202 Serial Fort (Dulluled OFShort Software) & REPO Connector			
UPS Dimensions HxWxD (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	(881 x 290 x 645) 1	(861 x 290 x 643)	(861 x 290 x 643)	(661 x 290 x 645) 4
UPS Weight lb. (kg)	328 (148.7)	657 (298)	985.5 (447)	1314 (596)
Optional External Battery HxWxD (inches) Bank Dimensions (mm)	32.1 x 10.2 x 21.8 (815 x 259 x 554)	32.1 x 10.2 x 21.8 (815 x 259 x 554)	32.1 x 10.2 x 21.8 (815 x 259 x 554)	32.1 x 10.2 x 21.8 (815 x 259 x 554)
Number of cabinets Optional External Battery Bank Weight SGB1S9-6K6 lb. (kg) SGB2S9-6K6 lb. (kg)	238 (107) 360 (163.3)	476 (215) 720 (326.6)	714 (323) 1080 (489.9)	952 (431) 1440 (635.1)
Number of cabinets	1 2 3 4			
Agency Approvals	UL 1778 & cUL Listed, CE and FCC Class A			

FN Series Scalable N+1 UPS Tower 10kVA - 40kVA

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
Electrical Input				
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	N/A 48A 96A N/A			
(non-N+1)	48A	96A	144A	192A
Frequency	50/60	Hz (Svnchronized Auto – Tracking) o	47-63 Hz (Programmable Unsynchro	nized)
Power Factor Correction		. ,	1.95	,
Efficiency AC/AC			97%, Battery Mode 85%	
		Op to 30 %, ECO Mode to	5 97 78, Battery Wode 05 78	
Electrical Output	7,000	44.000	24.000	20,000
Watts N+1 Redundant Mode	7,000 N/A	14,000 7,000	21,000 14,000	28,000 21,000
Voltage (Isolated)		<u>'</u>	e configuration at the time of initial or	· · · · · · · · · · · · · · · · · · ·
voltage (isolateu)		ac transformer output taps may be co 240/120Vac Split-Phase (3 wire pl	occomigation at the time of milital of one of the provide a single us ground) may also be configured ovac output voltage may be set	
Overload Capability		0 Watts continuous output (each UPS	S), 115% of 7000 Watts for 83 Second 50% of 7000 Watts for 320 millisecond	
Voltage Regulation		±:	3%	
Voltage Adjustment		±0%, ±1%, ±2% or ±	:3% (Programmable)	
Frequency	50/60 Hz ± 5 Hz (Synchro	onized Auto-Tracking) or 50 Hz and 6	Normal Street Normal	ote: UPS output capacity
Frequency Stability	+0.2% (Fived		output available in non-parallel confi	gurations only
Frequency Window	10.2 % (1 IXeu	1 1 1 1 1 1	nable, Auto-Tracking mode)	ga.caono omy
		, ,	<u> </u>	
Harmonic Distortion			ypical	
Crest Ratio		3	:1	
Battery				
DC Voltage		240	Vdc	
Туре		12V, 9AH Sealed Lead Acid I	Maintenance-Free (20 pieces)	
Charger Current		1.8	5A	
Back Up Time (Full Load /Half Load)		5.5 Minutes	, 15 Minutes	
Recharge Time		4 Hours	to 90%	
Replacement		Hot-Swappable & User-Replaceat	ole Through Removable Front Panel	
Transfer Time		·· ·		
Line Fails/Recovers		0 ו	me	
UPS to Bypass or Reverse			ms	
After Overload				
		Auto Trans	sfer to UPS	
Electrical Connections				
Input	Hardwire Terminal Block			
Output	Hardwire Terminal Block			
REPO		Hardwire Conr	nector Supplied	
Environmental				
Operating Temperature		0°C - 40°C (32	2° F to 104° F)	
Humidity	10% to 95% Non – Condensing			
Altitude	10,000 Feet			
Cooling	Low Velocity Forced Air Fans			
Audible Noise @ 1 Meter	Low Velocity Forced Air Fans 50 dbA			
		50	uvn	
Controls and Indicators	Line made Book 1 500	(mana) mada Dirivi I. Diri	Defeative Detter Control 1120	Transferring 10:111
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			
Mechanical				
UPS Dimensions HxWxD (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)	328 (148.7)	657 (298)	985.5 (447)	1314 (596)
Optional External Battery HxWxD (inches)	32.1 x 10.2 x 21.8	32.1 x 10.2 x 21.8	32.1 x 10.2 x 21.8	32.1 x 10.2 x 21.8
Bank Dimensions (mm)	(815.4 x 269.1 x 553.8)	(815.4 x 259.1 x 553.8)	(815.4 x 259.1 x 553.8)	(815.4 x 259.1 x 553.8)
Number of cabinets Optional External Battery Bank Weight	1	2	3	4
SGB1S9-6K6	238 (107) 360 (163.3)	476 (215) 720 (326.6)	714 (323) 1080 (489.9)	952 (431) 1440 (635.1)
Number of cabinets	1	2	3	4
Agency Approvals		UL 1778 & cUL Listed	, CE and FCC Class A	
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