



# FN Rackmount Series™ UPS Plus®

## 3kVA to 40kVA (split-phase output)

### Advanced Features:

- \* Parallel Rackmount 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
- \* Extended Brownout, Surge & Transient Protection
- \* Optional Extended Battery Banks & Chargers
- \* RS-232C, USB & Optional SNMP/HTTP Agent
- \* UPSilon® UPS Monitoring & Management Software



### Parallel Rackmount Units up to 40kVA

Businesses today rely on absolute system availability and scalability. The Falcon® Electric FN Parallelable, N+1 Rackmount On-line Uninterruptible Power Supply (UPS) provides the ideal solution. The FN Series UPS can easily be configured using individual 3, 4, 5, 6, 8 & 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 compact, 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 TCP-IP 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.

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# Rackmount FN Series™ UPS PLUS® 3kVA - 12kVA

Model Number (Includes FNITRM-6K-2)	FN3KRM-2TXI	FN3KRM-2TXI	FN3KRM-2TXI	FN3KRM-2TXI
<b>Number of Parallel Units</b>	1	2	3	4
N+1 VA Rating	N/A	3,000	6,000	9,000
Maximum VA Rating (not-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 (not-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 (Non-isolated) (UPS OUTPUT ONLY)	208, 220, 230, 240Vac Programmable (UPS modules may not be connected in parallel without a FNITRM-6K-2 isolation module installed on the output of each UPS module.)			
Voltage (Isolated) (FNITRM-6K-2 OUTPUT)	Note: Two 120Vac outputs may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground)			
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 ± 5Hz (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	31 Minutes 78 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)	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667
Number of cabinets	1	2	3	4
Battery Bank Dimensions H x W x D inches (mm)	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.92 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667
Model FNBRM-1S7	1	2	3	4
Number of cabinets	1	2	3	4
Transformer Module H x W x D inches (mm)	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667
Model FNITRM-6K-2 (If not needed use -2 UPS model)	1	2	3	4
Number of cabinets	1	2	3	4
UPS Weight lb. (kg)	53 (24)	106 (48)	159 (72)	212 (96)
Battery Bank Weight lb. (kg)	150 (68)	300 (136)	450 (204)	600 (272)
Transformer Module lb. (kg)	91 (41)	181 (82)	272 (123)	362 (164)
Agency Listing	UL 1778 & cUL Listed, CE and FCC Class A			

# Rackmount FN Series™ UPS PLUS® 4kVA - 16kVA

<b>Model Number</b> (Includes FNITRM-6K-2)	FN4KRM-2TXI	FN4KRM-2TXI	FN4KRM-2TXI	FN4KRM-2TXI
<b>Number of Parallel Units</b>	1	2	3	4
N+1 VA Rating	N/A	4,000	8,000	12,000
Maximum VA Rating (not-N+1)	4,000	8,000	12,000	18,000
<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 (not-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 (Non-isolated) (UPS OUTPUT ONLY)	208, 220, 230, 240Vac Programmable (UPS modules may not be connected in parallel without a FNITRM-6K-2 isolation module installed on the output of each UPS module.)			
Voltage (Isolated) (FNITRM-6K-2 OUTPUT)	Note: Two 120Vac outputs may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground)			
Overload Capability	<105% of 2800 Watts continuous output (each UPS) 115% of 2800 Watts for 83 Seconds (each UPS) 125% of 2800 Watts for 25 seconds (each UPS) 150% of 2800 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 ± 5Hz (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	21 Minutes 54 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)	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667
Number of cabinets	1	2	3	4
Battery Bank Dimensions H x W x D inches (mm)	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.92 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667
Model FNBRM-1S7	1	2	3	4
Number of cabinets	1	2	3	4
Transformer Module H x W x D inches (mm)	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667
Model FNITRM-6K-2 (If not needed use -2 UPS model)	1	2	3	4
Number of cabinets	1	2	3	4
UPS Weight lb. (kg)	53 (24)	106 (48)	159 (72)	212 (96)
Battery Bank Weight lb. (kg)	150 (68)	300 (136)	450 (204)	600 (272)
Transformer Module lb. (kg)	91 (41)	181 (82)	272 (123)	362 (164)
Agency Listing	UL 1778 & cUL Listed, CE and FCC Class A			

# Rackmount FN Series™ UPS PLUS® 5kVA - 20kVA

<b>Model Number</b> (Includes FNITRM-6K-2)	FN5KRM-2TXI	FN5KRM-2TXI	FN5KRM-2TXI	FN5KRM-2TXI
<b>Number of Parallel Units</b>	1	2	3	4
N+1 VA Rating	N/A	5,000	10,000	15,000
Maximum VA Rating (not-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 (not-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	3,500	7,000	10,500	14,000
N+1 Redundant Mode	N/A	3,500	7,000	10,500
Voltage (Non-isolated) (UPS OUTPUT ONLY)	208, 220, 230, 240Vac Programmable (UPS modules may not be connected in parallel without a FNITRM-6K-2 isolation module installed on the output of each UPS module.)			
Voltage (Isolated) (FNITRM-6K-2 OUTPUT)	Note: Two 120Vac outputs may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground)			
Overload Capability	<105% of 3500 Watts continuous output (each UPS) 115% of 3500 Watts for 83 Seconds (each UPS) 125% of 3500 Watts for 25 seconds (each UPS) 150% of 3500 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 ± 5Hz (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	15.6 Minutes 40 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)	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667
Number of cabinets	1	2	3	4
Battery Bank Dimensions H x W x D inches (mm)	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.92 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667
Model FNBRM-1S7	1	2	3	4
Number of cabinets	1	2	3	4
Transformer Module H x W x D inches (If not needed use -2 UPS model) (mm)	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667
Model FNITRM-6K-2	1	2	3	4
Number of cabinets	1	2	3	4
UPS Weight lb. (kg)	53 (24)	106 (48)	159 (72)	212 (96)
Battery Bank Weight lb. (kg)	150 (68)	300 (136)	450 (204)	600 (272)
Transformer Module lb. (kg)	91 (41)	181 (82)	272 (123)	362 (164)
Agency Listing	UL 1778 & cUL Listed, CE and FCC Class A			

# Rackmount FN Series™ UPS PLUS® 6kVA - 24kVA

Model Number (Includes FNITRM-6K-2)	FN6KRM-2TXI	FN6KRM-2TXI	FN6KRM-2TXI	FN6KRM-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 (not-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 (not-N+1)	N/A 29A	29A 58A	29A 58A	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	4,200	8,400	12,600	16,800
N+1 Redundant Mode	N/A	4,200	8,400	12,600
Voltage (Non-isolated) (UPS OUTPUT ONLY)	208, 220, 230, 240Vac Programmable (UPS modules may not be connected in parallel without a FNITRM-6K-2 isolation module installed on the output of each UPS module.)			
Voltage (Isolated) (FNITRM-6K-2 OUTPUT)	Note: Two 120Vac outputs may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground)			
Overload Capability	<105% of 4200 Watts continuous output (each UPS) 115% of 4200 Watts for 83 Seconds (each UPS) 125% of 4200 Watts for 25 seconds (each UPS) 150% of 4200 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 ± 5Hz (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	12 Minutes 31 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 After Overload	0-1 ms 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)	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667
Number of cabinets	1	2	3	4
Battery Bank Dimensions H x W x D inches (mm)	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.92 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667
Model FNBRM-1S7	1	2	3	4
Number of cabinets	1	2	3	4
Transformer Module H x W x D inches (If not needed use -2 UPS model) (mm)	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667	2U 3.47 x 17.4 x 26.3 88 x 440 x 667
Model FNITRM-6K-2	1	2	3	4
Number of cabinets	1	2	3	4
UPS Weight lb. (kg)	53 (24)	106 (48)	159 (72)	212 (96)
Battery Bank Weight lb. (kg)	150 (68)	300 (136)	450 (204)	600 (272)
Transformer Module lb. (kg)	91 (41)	181 (82)	272 (123)	362 (164)
Agency Listing	UL 1778 & cUL Listed, CE and FCC Class A			

# Rackmount FN Series™ UPS PLUS® 8kVA - 32kVA

Model Number (Includes FNITRM-8K-2)	FN8KRM-2TXI	FN8KRM-2TXI	FN8KRM-2TXI	FN8KRM-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 (not-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/A	40A	80A	N/A
(not-N+1)	40A	80A	120A	160A
Frequency	50/60 Hz (Synchronized Auto – Tracking) or 47-63 Hz (Programmable Unsynchronized)			
Power Factor Correction	> 0.95			
Efficiency (AC-AC)	Up to 90%			
(Battery Mode)	85%			
<b>Electrical Output</b>				
Watts	5,600	11,200	16,800	16,800
N+1 Redundant Mode	N/A	5,600	11,200	11,200
Voltage (Non-isolated) <b>(UPS OUTPUT ONLY)</b>	208, 220, 230, 240Vac Programmable (UPS modules may not be connected in parallel without a FNITRM-6K-2 isolation module installed on the output of each UPS module.)			
Voltage (Isolated) <b>(FNITRM-8K-2 OUTPUT)</b>	Note: Two 120Vac outputs may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground)			
Overload Capability	<105% of 5600 Watts continuous output (each UPS) 115% of 5600 Watts for 83 Seconds (each UPS) 125% of 5600 Watts for 25 seconds (each UPS) 150% of 5600 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 ± 5Hz (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	7 Minutes			
@ 1/2 Load	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)	3U 5.2 x 17.4 x 26.3 132.1 x 440 x 667	3U 5.2 x 17.4 x 26.3 132.1 x 440 x 667	3U 5.2 x 17.4 x 26.3 132.1 x 440 x 667	3U 5.2 x 17.4 x 26.3 132.1 x 440 x 667
Number of cabinets	1	2	3	4
Battery Bank Dimensions H x W x D inches (mm)	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.92 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667
Number of cabinets	1	2	3	4
Transformer Module H x W x D inches (If not needed use -2 UPS model) (mm)	3U 5.2 x 17.4 x 26.3 132.1 x 440 x 667	3U 5.2 x 17.4 x 26.3 132.1 x 440 x 667	3U 5.2 x 17.4 x 26.3 132.1 x 440 x 667	3U 5.2 x 17.4 x 26.3 132.1 x 440 x 667
Number of cabinets	1	2	3	4
UPS Weight lb. (kg)	57 (26)	115 (52)	172 (78)	229 (104)
Battery Bank Weight lb. (kg)	150 (68)	300 (136)	450 (204)	600 (272)
Transformer Module lb. (kg)	108 (49)	216 (98)	324 (147)	432 (196)
Agency Listing	CE			

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11-10-2010



# Rackmount FN Series™ UPS PLUS® 10kVA - 40kVA

<b>Model Number</b> (Includes FNITRM-10K-2)	FN10KRM-2TXI	FN10KRM-2TXI	FN10KRM-2TXI	FN10KRM-2TXI
<b>Number of Parallel Units</b>	1	2	3	4
N+1 VA Rating	N/A	10,000	20,000	30,000
Maximum VA Rating (not-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 (not-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	21,600	28,800
N+1 Redundant Mode	N/A	7,000	14,000	21,600
Voltage (Non-isolated) (UPS OUTPUT ONLY)	208, 220, 230, 240Vac Programmable (UPS modules may not be connected in parallel without a FNITRM-6K-2 isolation module installed on the output of each UPS module.)			
Voltage (Isolated) (FNITRM-10K-2 OUTPUT)	Note: Two 120Vac outputs may be connected in parallel to provide a single 120Vac output. 240/120Vac Split-Phase (3 wire plus ground)			
Overload Capability	<105% of 7000 Watts continuous output (each UPS) 115% of 7000 Watts for 83 Seconds (each UPS) 125% of 7000 Watts for 25 seconds (each UPS) 150% of 7000 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 ± 5Hz (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)	3U 5.2 x 17.4 x 26.3 132.1 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.92 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667
Number of cabinets	1	2	3	4
Battery Bank Dimensions H x W x D Model FNBRM-1S9 inches (mm)	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.92 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667
Number of cabinets	1	2	3	4
Transformer Module H x W x D Model FNITRM-10K-2 inches (If not needed use -2 UPS model) (mm)	3U 5.2 x 17.4 x 26.3 132.1 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667	3U 6.92 x 17.4 x 26.3 176 x 440 x 667	3U 6.93 x 17.4 x 26.3 176 x 440 x 667
Number of cabinets	1	2	3	4
UPS Weight lb. (kg)	57 (26)	115 (52)	172 (78)	229.2 (104)
Battery Bank Weight lb. (kg)	150 (68)	300 (136)	450 (204)	600 (272)
Transformer Module lb. (kg)	108 (49)	216 (98)	324 (147)	432 (196)
Agency Listing	CE			