

FN2 4.5-10KVA ONLINE UPS RACKMOUNT / TOWER DATASHEET

Overview

Power without compromise. Falcon's FN2 true on-line UPS delivers DSP control, unity PF, N+1 redundancy to 40 kVA, optional MBS/PDU, hot-swappable extended runtime, LCD visibility, SNMP-ready management—engineered for reliability.

Key Advantages

- **Advanced DSP technology:** The FN2 On-line UPS features advanced Digital Signal Processing (DSP) technology with a unity output power factor. It also offers N+1 redundancy and scalability up to 40kVA
- **Configurable Options:** PDU with or without MBS (Maintenance Bypass Switch) for service continuity, plus extended battery banks to scale runtime.
- **User-friendly LCD display** – The FN2 has an easy-to-use display to monitor the UPS and battery status.
- **Extended battery banks**
The hot-swappable battery banks are easily expandable for minutes to hours of extra battery runtime.
- **Advanced communications**
The FN2's software supports unattended shutdown and UPS management. An optional SNMP/HTTP agent board is available.
- **Quality Engineering:** Falcon Electric is a recognized authority in developing reliable, quality industrial UPS solutions. Our technical expertise ensures you find the right solution the first time.



FN2 4.5-10KVA ONLINE UPS RACKMOUNT / TOWER

DATASHEET

Model Number	FN2-4.5KRM-2TXI	FN2-6KRM-2TXI	FN2-8KRM-2TXI	FN2-10KRM-2TXI
Nominal VA	4500	6000	8000	10000
Electrical Input				
Nominal AC Voltage	208Vac or 240Vac			
AC Voltage Range	Based on applied load percentage: 176 - 280Vac ≤ 100% load, 160 - 176Vac < 75% load, 110 - 160Vac < 50% load.			
Frequency Range	45 - 70Hz			
Power Factor Correction	0.99 (at full linear load)			
Efficiency (Typ.)	90% Normal Mode, 94% ECO Mode		91% Normal Mode, 95% ECO Mode	
Current	30A	36A	52A	62A
Harmonic Distortion	≤5% (at full linear load)			
Electrical Output				
Watts	4500	6000	8000	10000
Power Factor	1			
AC Voltage	120/208Vac, 110/220Vac, 115/230Vac, 120/240Vac (Isolated Output)			
Frequency	50/60 Hz (Auto Tracking) or Fixed 50/60 Hz Note: UPS output capacity derated to 75% when programmed for fixed output frequency.			
Frequency Window	± 1Hz or ± 3Hz (Programmable Synchronized Range)			
Frequency Stability	± 0.2% (Fixed Frequency Operation)			
Voltage Regulation	± 3%			
Harmonic Distortion	≤ 3% (at full linear load)			
Overload	110% for 480 seconds, 125% for 30 seconds, 150% immediate			
Crest Ratio	3:1			
Step Load Change	≤ 10% within 60ms for 10% - 100% load variation			
Output Protection	Overload, Over-temperature, Short Circuit, Over-charge			
Battery				
DC Bus Voltage (nominal)	240Vdc			
Battery Pack Type	User-Replaceable, Hot-Swappable Packs (5)			
Battery Type	Maintenance-Free, Sealed VRLA Batteries, 12Vdc, 9Ah			
Battery Runtime				
Full/Half Load in Minutes	9.5 / 26	5.5 / 17	4 / 11.5	2 / 8.5
Recharge Time	6 Hours to 90%			
Charger Current	1.7A (Two Step, Constant Current / Constant Voltage Charger)			
Transfer Time				
Line Fails/Recovers	0ms			
UPS to Bypass or Reverse				
Electrical Connections				
Input / Output	Hardwire Terminal Block			
Battery	Anderson Power Pole (6 Position)			
Environmental				
Temperature	Operational	0°C to 40°C (32°F to 104°F)		
	Storage	-10°C to 40°C (14°F to 104°F)		
Humidity	20% to 95% Non - Condensing			
Altitude	3,280 Feet (1,000 meters)			
Cooling	Forced Air Fans			
Heat Dissipation	BTU/Hour	2559	3412	4095
Audible Noise	(@ 1 Meter)	<60dBA		
Controls & Indicators				
LCD Display	Utility Voltage / Frequency, Bypass Voltage / Frequency, Inverter Voltage / Frequency / Current Load %, Battery Voltage, Internal Temperature, Battery Quantity			
LED Indicators	Utility Input, Bypass Input, N+1 Parallel Mode, ECO Mode & UPS Fault			
Audible Alarms	Utility Loss, Low Battery, Transfer to Bypass & UPS Fault			
Communications	USB Port, RS-232 Serial Port, Optional SNMP/HTTP Agent Board (UPS Bundled UPSilon Software)			
Remote Emergency Power Off	Two Position, Normally Open Connector			
Parallel Capacity	Up to 4 UPSs for Parallel Operation (Scalable up to 40kVA)			
Parallel Redundancy	3 + 1			
Mechanical				
UPS Inverter Dimensions	H x W x D	(2U) 3.5 x 17.3 x 26.8		(3U) 5.2 x 17.3 x 26.8
Transformer Dimensions	inches (mm)	(88 x 440 x 680)		(132 x 440 x 680)
Battery Bank Dimensions	(3U) 5.2 x 17.3 x 27			
H x W x D inches (mm)	(132 x 440 x 685)			
UPS System Weight	lb. (kg)	252 (114.5)		314 (142.5)
UPS Inverter Weight	lb. (kg)	41 (18.5)		47 (21.5)
Battery Bank Weight	lb. (kg)	139 (63)		
Transformer Weight	lb. (kg)	93 (42)		128 (58)
Agency Approvals	UL1778, cUL, FCC Class A, CE			

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Transfer Time				
Line Fails/Recovers	0ms			
UPS to Bypass or Reverse	0ms			
Electrical Connections				
Input / Output	Hardwire Terminal Block			
Battery	Anderson Power Pole (6 Position)			
External Charger	Anderson Power Pole (3 Position)			
Environmental				
Temperature	Operational	0°C to 40°C (32°F to 104°F)		
	Storage	-10°C to 40°C (14°F to 104°F)		
Humidity	20% to 95% Non - Condensing			
Altitude	3,280 Feet (1,000 meters)			
Cooling	Forced Air Fans			
Heat Dissipation	BTU/Hour	2559	3412	4095
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Communications	USB Port, RS-232 Serial Port, Optional SNMP/HTTP Agent Board (UPS Bundled UPSilon Software)			
Remote Emergency Power Off	Two Position, Normally Open Connector			
Parallel Operation	Up to 4 UPSs for Parallel Operation (Scalable up to 40KVA)			
Parallel Redundancy	3 + 1			
Mechanical				
UPS Dimensions	26 x 9.4 x 27.6			
H x W x D	inches (mm)	(661 x 240 x 700)		26 x 11.3 x 27.6 (661 x 288 x 700)
UPS Weight	lb. (kg)	267 (121)		298 (135)
Agency Approvals	UL1778, cUL, FCC Class A, CE			