



FN2 On-line UPS

6, 8 & 10kVA Rackmount & Tower



FN2 On-line UPS 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 scalability and N+1 redundancy.
- **Versatile options**
 - Power Distribution Unit (PDU) with or without Maintenance Bypass Switch (MBS)
 - Extended battery banks
- **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.
- **Falcon is recognized for quality and reliability**
Falcon Electric is a recognized authority in on-line UPS solutions. Our technical expertise assures you find the right solution – the first time.

Model Number		FN2-6KRM-2TXI	FN2-8KRM-2TXI	FN2-10KRM-2TXI
Nominal VA		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		36	52	62
Harmonic Distortion		≤5% (at full linear load)		
Electrical Output				
Watts		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		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		0ms		
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: 3412	4095	4777
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		
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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Watts	6000	8000	10000
Power Factor	1		
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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)		
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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		
Parallel Redundancy	3 + 1		
Mechanical			
UPS Dimensions	26 x 9.4 x 27.6		26 x 11.3 x 27.6
H x W x D	inches (mm)	(661 x 240 x 700)	(661 x 288 x 700)
UPS Weight	lb. (kg)	267 (121)	298 (135)
Agency Approvals	UL1778, cUL, FCC Class A, CE		

