

ED 3- 5KVA UPS RACKMOUNT

DATASHEET

Overview

The Falcon® Electric ED Series Rackmount UPS and Frequency Converter delivers clean, tightly regulated AC power from 47Hz–450Hz input, ensuring reliable performance and protection for demanding industrial, military, and laboratory applications.



Key Advantages

- **Technology Breakthrough:** The ED-1 combines frequency conversion, voltage regulation, and on-line UPS protection in one compact unit, improving reliability, reducing downtime, and maximizing productivity.
- **Enhanced Start-Up Capability:** Handles high inrush loads, easily starting motors, lighting, and multiple systems, ensuring dependable operation in industrial, military, and mission-critical environments.
- **Regenerative On-line Design:** Converts unstable generator output into clean, regulated, computer-grade power, isolating sensitive equipment from voltage and frequency drift for consistent performance.
- **Versatile Application Range:** Ideal for military, aerospace, offshore, shipboard, robotics, test benches, manufacturing, and mobile systems requiring precision power and maximum uptime.

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Model Number	ED4-3000RM-1	ED4-4000RM-1	ED4-5000RM-1
Nominal VA	3000	4000	5000
Electrical Input			
AC Voltage, +10% -10%	120Vac Single-phase		
Current-Amps	30	40	50
Frequency Range	47Hz - 450Hz		
Power Factor	>0.7pf		
Electrical Output			
AC Voltage	120 Vac 1Ø, ± 3%		
Frequency	50 or 60Hz ±1Hz or 400Hz ±1%		
Watts	2100	2800	3500
Current-Amps	27A with 0.7pf Load 17.5A with Resistive Load	33A with 0.7pf Load 23.3A with Resistive Load	43 with 0.7pf Load 29.1A with Resistive Load
Non – Linear Repetitive Peak (Amps)	65A	75A	100
Total Harmonic Distortion	< 3% @ 100% Linear Load, < 5% @ 100% Non-Linear Load		
Overload	120% for 10 Seconds		
Dynamic Response	± 5% RMS for 100% Step Load Change, 1ms Recovery Time		
Output Protection	Short Circuit and Overload		
Battery Charger (lead-acid only)	800ma		
Battery Type	(6) pieces of 12V, 9AH VRLA		
Battery Runtime	4 minutes 11.5 minutes	2 minutes 8.6 minutes	1.7 minutes 6 minutes
Electrical Connections			
Input	(1) MS3452W24-10P or Hardwire (Located on the rear panel)		
Output	(1) MS3452W22-22S or Hardwire (Located on the rear panel)		
External Battery Connector	(1) MS3102A18-11P (Located on the rear panel)		
Environmental			
Operating Temperature	-20°C to +50° C		
Storage Temperature	-40°C to +60°C		
Humidity	10% to 95% Non – Condensing		
Operating Altitude	10,000 Feet		
Cooling	200cfm Fan		
Air Flow	Front to Back		
Audible Noise @ 1.5 Meters	60dBA @ 1.5 Meters		
Controls and Indicators			
Sequenced LEDs	Load Level / Battery Level		
Single LED	Utility Present, Summary Alarm, Inverter On		
Audible Alarms	Utility Interrupt, Inverter Failure, Overload		
Mechanical			
Dimensions H x W x D inches (mm)	6.97 x 16.87 x 21.19 (177.1 x 428.5 x 538.3)		
Chassis	4U Rackmount		
Weight lb. (kg)	85 (38.6)		