

ED 1-2.4KVA UPS RACKMOUNT

D A T A S H E E T

Overview

The Falcon® Electric ED-1 Rackmount Series delivers precision power conversion and on-line UPS protection in a compact 2U design, ensuring clean, stable, and reliable AC output for demanding industrial and military applications



Key Advantages

- **Advanced Frequency Conversion & UPS Capability:** Dual functionality allows the ED-1 to operate as both a high-performance frequency converter and an on-line UPS, ensuring reliable power across diverse applications.
- **Superior Voltage & Frequency Regulation:** Solid-state design regenerates clean, precise AC power, maintaining constant output under wide input variations to protect sensitive equipment from power disturbances.
- **Extended Brownout & Surge Protection:** Operates seamlessly during brownouts down to 88 VAC while filtering surges and transients, providing continuous, stable power for mission-critical systems.
- **Regenerative On-line Design:** Converts inconsistent generator or utility power into clean, tightly regulated, computer-grade output, ensuring dependable performance in demanding environments.

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DATA SHEET

Model Number	ED-1000RM-1	ED-1500RM-1	ED-2000RM-1	ED-2400RM-1
Nominal VA	1000	1500	2000	2400
Electrical Input				
AC Voltage, +10% -20%	120Vac			
Current-Amps	10.4	15.6	20.8	25.0
Frequency Range	47-450 Hz			
Electrical Output				
AC Voltage, ± 3%	120Vac			
Watts @ 50 or 60 Hz	700	1050	1400	1680
Watts @ 400 Hz	595	892	1190	1428
Current-Amps @ 50/60 Hz	8.3	12.5	16.7	20
Current-Amps @ 400 Hz	7.1	10.6	14.2	17
50/60 Hz Non-Linear Repetitive Peak (Amps)	20	30	40	47.6
400 Hz Non-Linear Repetitive Peak (Amps)	14.2	21.3	28.3	33.8
Total Harmonic Distortion	< 3% @ 100% Linear Load, < 5% @ 100% Non-Linear Load			
Overload	200% for 0.5 Seconds, 120% for 30 Seconds			
Dynamic Response	+/- 5% RMS for 100% Step Load Change, 1ms Recovery Time			
Output Protection	Short Circuit and Overload			
Battery				
Type	Sealed Lead Acid Maintenance-Free Standard Batteries – Yuasa 12V, 7AH Optional High Temperature – Hawker 12V, 5AH			
Back Up Time @ Full Load (Std. batteries)	8 Minutes	5 Minutes	3 Minutes	
@ 1/2 Load	20 Minutes	14 Minutes	9 minutes	
<small>Battery times are stated for standard batteries and are approximate. Optional high temperature Hawker batteries available.</small>				
Electrical Connections				
Input	6' Cord with 5-15P	6' Cord with 5-20P	6' Cord with L5-30P	
Output	(4) 5-15R			
<small>Other input plug and output plug configurations available, contact the factory.</small>				
Environmental				
Operating Temperature	With standard Yuasa NP7-12 Batteries - 0° C to 40° C (32° F to 104° F) With optional Hawker high temperature batteries - 0° C to 50° C (32° F to 122° F)			
Humidity	10% to 95% Non – Condensing			
Altitude	7,000 Feet Consult the factory for higher altitude			
Cooling	Low Velocity Forced Air Fans			
Audible Noise @ 1.5 Meters	54dBA			
Controls and Indicators				
Sequenced LEDs	Load Level			
Single LED	Utility Present, Low Battery, Summary Alarm, Inverter On			
Audible Alarms	Utility Interrupt, Inverter Failure, Overload, Low Battery			
Communications	Dry Contact Closures on Utility Loss & Low Battery via 9 Pin "D" Connector			
Mechanical				
Dimensions H x W x D	inches (mm)	3.5 x 17.13 x 20.1 (88.9 x 435.1 x 515.5)		
Weight	lb. (kg)	54 (24.4)	58 (26.3)	60 (27.2)
Chassis	Light weight aluminum			