

## JetLinkSys® SERIES 400Hz GROUND POWER UNIT & CABLE HANDLER



FIXED CONFIGURATION  
(shown with 18" Mounting Stand and standard touch screen panel)

### STANDARD FEATURES:

- IP55
- Certified to UL 1012
- 3 Phase, 380-480VAC input
- Indoor/Outdoor (Hangar/Ramp) Use
- ≤ 5% Input Current Distortion at max load
- Automatic Input Line Monitoring
- Advanced Integrated Display (AID™) Console
- 8000 Event Log / Diagnostics
- TCP/IP/Ethernet interface (Modbus)
- Output Aircraft Safety Interlock Circuit Disconnect
- Internal Communication Ports - USB, RJ45 (ETHERNET), RS485 (Modbus), & RS232
- External Communication Port – USB
- 15% Automatic Line Drop Compensation
- Emergency Power “OFF” Switch
- 18-Inch Hazard Area Clearance
- I/O Voltage and Current Monitoring
- Input Frequency Monitoring
- Elapsed Time Meter
- Sleep Mode
- Front Panel Voltage Adjust
- Front Panel Summary Fault Indicators
- Input High Voltage Transient Protection
- Multi Language Display - Arabic, Asian, English, French, German, Italian, Portuguese, Russian and Spanish, Others - Specify

This product was manufactured in a plant whose quality management system is registered to ISO 9001:2015.



### APPLICATION:

Since its beginning in 1960, Unitron has specialized in the design and development of reliable solid-state power systems for military applications. Through an innovative design, Built-In Test Equipment (BITE) and modular construction, Unitron products assure maximum power availability and minimal repair time.

The JetLinkSys Series includes lightweight 400Hz, 28VDC, or 270VDC GPUs for aircraft ground power applications in the hangar or ramp area. The JetLinkSys Series is a two enclosure system consisting of a URV Series Cable Handler and either a UFC or UDC Series Ground Power Unit, both mounted either individually or on a common mounting base available on a 4, 12, or 18inch stand (18inch stand recommended for hangar applications.) Other common mounting options for the JetLinkSys Series are towable and overhead.

Output power ratings for the Ground Power Unit (GPU) range from 20kVA to 180kVA. Larger power ratings are available in towable, fixed and bridge-mounted configurations.

### OPTIONS:

- Alternate Input Voltage Range 3-phase, 208-240 or 600VAC
- Various Convenience Outlets (Specify Voltage and Frequency)
- Overhead & Trailer Mounting Configurations Available
- External Communication Port - Ethernet
- Indoor Touch Screen Panel
- No Break Power Transfer Compatible
- 28VDC or 270VDC Output
- Lockable Front Door
- Custom Paint & Decals (Standard Color - White)
- Ground Fault Monitor (400Hz only)
- 300% overload for 6 seconds or 425% overload for 1 second\* (Specify)
- Bench Top Voltage Adjust
- CSA Certified
- CE Mark Certified
- Fixed - 4 or 12 inch mounting stand
- Cable Plug Head Available with Start/Stop and In/Out Pushbuttons
- Neutral Interrupt Protection
- Universal Safety Interlock
- Remote Box Interface

\*IAW MIL-STD-704F and ISO 6858: 2017

### MECHANICAL SPECIFICATIONS:

Size:	See Figure 1
Weight:*	60.0kVA = 1,023lbs. (464 kg.) 75.0kVA = 1,102lbs. (500 kg.) 90.0kVA = 1,187lbs. (538 kg.)
	*Excluding cable and mounting
Enclosure:	NEMA 250 - Type 3SX
Cooling:	Forced Convection

### SPECIFICATIONS / STANDARDS (Meets or Exceeds):

NFPA 70 (NEC 500)	SAE ARP 5015
EN 60079-10	MIL-STD-1472
DFS-400	MIL-STD-704F
ISO 461-1/2	UFGS 26 35 43
ISO 1540	EN 61000-6-2 and -4**
ISO 6858	2006/95/EC**

\*\*Defined Basis of CE Mark Certification

## GENERAL SPECIFICATIONS

### INPUT:

Input Current Distortion	≤ 5%, typically 3%
Voltage	380 - 480 V, +10%, -15%, 3Ø, 3 or 4 wire plus ground (Alternate Voltages Available)
Frequency	50 - 60 Hz ± 10%
Phase Rotation	Any
Protection	Over/undervoltage, loss of phase, over current, short circuit. Voltage transient protection IAW IEEE C62.41.1, Location Cat. B/C
Inrush Current	No greater than 100% of full load current

### ENERGY FACTORS:

Efficiency	94% typical at full load; 92% typical at half load; varies depending on configuration
Energy Efficiency Ratio	20.0 typical

### ENVIRONMENTAL:

Acoustical Noise	< 65 dBA maximum at 5 feet (1.5m)
Temperature Range	-40°C to +55°C
Relative Humidity	10 - 95%, Non-Condensing
Ingress of Water	Type 3SX, IP55

### OUTPUT:

Power Rating	60, 75, or 90 kVA (Specify)
Power Factor Range	0.5 lagging to 0.8 leading
Overload	100% continuous; 110% for 60 min; 125% for 10 min; 150% for 2 min; 200% for 20 sec
Voltage*	115/200 volts, 3Ø, 4 wire, grounded neutral
Voltage Adjust*	± 15%
Crest Factor	1.414 ± 3%
Voltage Regulation	± 1.0% under all conditions of line, balanced loads and temperature
Voltage Transients	IAW MIL-STD-704F
Frequency Regulation	400 Hz ± 0.01% under all conditions of line, load and temperature
Frequency Transients	None
Phase Angle Regulation	± 1° for balanced loads; ± 2° for unbalanced loads
Harmonic Distortion	2.0% maximum
Protection	Overload, short circuit, over/under voltage and safety disconnect
Automatic Line Drop Compensation (ALDC)	15%

\*Also available 120/208 VAC, adjustable ±10%

