APPLICATION:
Since its beginning in 1960, Unitron has specialized in the design and development of reliable solid-state power systems. Through an innovative design, advanced self-diagnostic systems (BITE) and modular construction, Unitron products assure maximum power availability and minimal repair time.

The Low ProFile Series includes 115/200VAC, 400Hz, 28VDC, and 270VDC converters designed to provide aircraft ground power in "low profile" applications such as under passenger boarding bridges, in maintenance hangars, or on flight lines. This versatile design is particularly well suited for field installations where low clearances for aircraft are required. The 400Hz fixed Low ProFile unit provides up to 180kVA output power and is designed to service the largest commercial and military aircraft on the market today. The dual outputs provided can be single source controlled, be individually voltage regulated and line drop compensated, and configured for partial redundancy.

Output power ratings for these 400Hz Ground Power Units (GPUs) range from 20kVA to 180kVA. Dependent upon rating, these units are available in mobile, towable, fixed and bridge-mounted configurations. When ramp or floor space is a premium, the Low ProFile GPU can be installed as an overhead mounted unit.

In addition to bridge mounted GPUs, Unitron offers mobile, fixed and towable configurations.

OPTIONS:
- Alternate 3-phase, Input Voltages of 208-240 or 600VAC
- Various Convenience Outlets (Specify Voltage and Frequency)
- AC Output Power Cable with Aircraft Plug (Specify Length)
- Output Universal Aircraft Safety Interlock Circuit Disconnect (Single or Dual)
- External Communication Port - Ethernet
- Output Safety Disconnect
- Alternate third or fourth outputs - 28VDC each at 600 Amps continuous with Individual Safety Disconnect from aircraft
- Individual Output Voltage Regulation / ALDC
- Second 28VDC output
- 300% overload for 6 seconds
- TCP/IP/Ethernet interface (Modbus)
- Indoor Touch Screen Panel
- No Break Power Transfer Compatible
- Custom Paint & Decals (Standard Color - White)
- Ground Fault Monitor
- CSA Certified
- CE Mark Certified
- Alternate Mounting Configurations Available
- Stand - 4, 12 or 18 Inch
- Forklift Tubes - 4 Inch
- Leg Kit - 12 or 18 Inch
- Neutral Interrupt Protection
- Universal Safety Interlock

SPECIFICATIONS / STANDARDS (Meets of 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

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

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

**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

**ENERGY FACTORS:**
- **Efficiency**: 94% typical at full load; 92% typical at half load; varies depending on configuration
- **Energy Efficiency Ratio**: 20.0 typical

**OUTPUT:**
- **Power Rating**: 120, 150, or 180 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
- **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/undervoltage and safety disconnect
- **Automatic Line Drop Compensation (ALDC)**: 15%

**FIGURE 1**

![Diagram of UFC SERIES Low ProFile™ Boarding Bridge Mount GROUND POWER UNIT (GPU)](image-url)

Specifications subject to change without notice

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