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 PwrKart Series includes lightweight 115/200VAC, 400Hz, 28VDC, and 270VDC mobile converters for aircraft ground power applications in the hangar or ramp area. With one of the lightest weight-to-power rating ratio in the market, all Unitron mobile units are easily maneuvered by a single person within the hangar environment. This eliminates the need for expensive towing equipment or additional labor that other Ground Power Units (GPUs) may require.

Output power ratings for the 115/200VAC, 400Hz mobile PwrKart range from 20kVA to 90kVA. Larger power ratings are available in towable, fixed and bridge-mounted configurations. In addition, Unitron offers a combination AC/DC GPU, which provides simultaneous 115/200VAC, 400Hz or 270VDC at 72kW, with 28VDC power from a single unit.

OPTIONS:
- Alternate input voltage range 3 Phase, 208-240 or 600VAC input
- Various Convenience Outlets (Specify Voltage and Frequency)
- 50 or 100 Foot Input Power Cable (Pigtail, Specify Required Length)
- AC Output Power Cable with Plug (Specify Required Length - Available in 30 or 60 foot standard lengths)
- Output Universal Aircraft Safety Interlock Circuit Disconnect (Single or Dual)
- External Communication Port - Ethernet
- Output Safety Disconnect
- 300% overload for 6 seconds or 425% overload for 1 second* (Specify)
- 28VDC or 270VDC Output
- Alternate Mounting Configurations Available
- Pneumatic Ramp Tires
- Custom Paint & Decals (Standard Color - White)
- Bench Top Voltage Adjust
- Ground Fault Monitor
- CSA Certified
- CE Mark Certified
- Lockable Front Door
- Neutral Interrupt Protection
- Universal Safety Interlock
*IAW MIL-STD-704F and ISO 6858: 2017

MECHANICAL SPECIFICATIONS:
- Size: See Figure 1
- Weight: 60.0kVA = 753lbs. (342kg.)
- 75.0kVA = 925lbs. (420kg.)
- 90.0kVA = 1,017lbs. (461kg.)
- Enclosure: NEMA 250 - Type 3SX
- Cooling: Forced Convection

SPECIFICATIONS / STANDARDS (Meets or Exceeds):
- NFPA 70 (NEC 500)
- EN 60079-10
- DFS-400
- ISO 461-1/2
- ISO 1540
- ISO 6858

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

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### GENERAL SPECIFICATIONS

#### INPUT:
- **Input Current Distortion**: ≤ 5%, typically 3%
- **Voltage**: 380 - 480 volts, +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, 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: 60, 75, or 90 kVA (Specify)
- **Overload**:
  - 100% continuous
  - 125% for 10 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/undervoltage and safety disconnect
- **Automatic Line Drop Compensation (ALDC)**: 15%

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