

UDC SERIES PwrKart[™] **28VDC GROUND POWER UNIT**



TOWABLE CONFIGURATION (Shown with mango paint color and standard touch screen panel)

STANDARD FEATURES:

- IP55
- Certified to UL 1012
- Indoor/Outdoor (Hangar/Ramp) Use
- Automatic Input Line Monitoring
- 8000 Event Log / Diagnostics
- TCP/IP/Ethernet Interface (Modbus)
- 10% Power Regulation
- Internal Communication Ports USB, RJ45 (Ethernet), RS485 (Modbus), & RS232
- External Communication Port USB
- Emergency Power "OFF" Switch
- 18-Inch Hazard Area Clearance
- Advanced Integrated Display (AID[™]) Console
- Input Frequency Monitoring
- I/O Voltage and Current Monitoring
- Elapsed Time Meter Access
- Front Panel Voltage Adjust
- Front Panel Summary Fault Indicators
- Input High Voltage Transient Protection
- Output Current Limit Adjust from 150 to full rated current
- 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. Our PWM topography represents the most advanced design available in today's market. Self-diagnostic systems (BITE) and modular construction, assure maximum power availability and minimal repair time.

The PwrKart Series includes lightweight 115/200VAC, 400Hz, 28VDC, and 270VDC mobile and trailer mounted converters for aircraft ground power applications in the hangar or ramp area.

Unitron's 28VDC mobile PwrKart provides either 400 or 600 amps continuous output power, with starting currents from 2000 amps and is capable of running off of 50 or 60Hz sources. In addition, Unitron offers a combination AC/DC GPU, which provides simultaneous 115/200VAC, 400Hz with 28VDC power from a single unit.

OPTIONS:

- Alternate 3Ø Input Voltage Range Available 575-600VAC
- Various Convenience Outlets (Specify Voltage and Frequency)
- 50 or 100 foot Input Power Cable (Pigtail)
- 9 or 12 Inch Top Cable Storage Rack
- DC Output Power Cable with Plug (Up to 65' Feet)
- **External Communication Port Ethernet**
- Output Safety Disconnect
- Bench Top Voltage Adjust
- Input Auto Ranging
- ≤ 5% Input Current Distortion at Max Load
- Dual 28VDC output (Contact Factory)
- Alternate Mounting Configurations Available
- Custom Paint & Decals (Standard Color White)
- Lockable Front Door
- CSA Certified

- **CE Mark Certified**
- **Pneumatic Ramp Tires**
- UltraLite[™] Upgrade Package

MECHANICAL SPECIFICATIONS:

Size:	See Figure 1
Weight:	1,053lbs. (478kg.)
Enclosure:	NEMA 250 - Type 3SX
Cooling:	Forced Convection

SPECIFICATIONS / STANDARDS (Meets of Exceeds):

NFPA 70 (NEC 500) EN 60079-10 ISO 461-1/2 ISO 1540

ISO 6858 UFGS 26 35 43 MIL-STD-1472 MIL-STD-704F

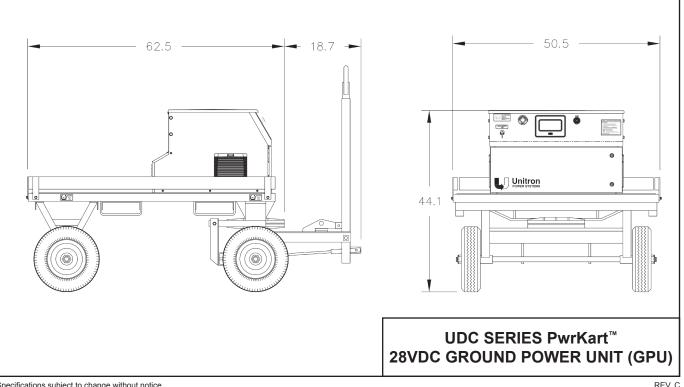
GENERAL SPECIFICATIONS

INPUT:

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	INPUT: Voltage	208-240V and 380-480V, ± 10%, 3Ø, 3 or 4 wire plus ground	<i>Model 420</i> Full Load Rating Overload (10% duty cycle)	425 amps continuous 600 amps for 1 hour 1000 amps for 1 minute
	Frequency Phase Rotation	(Specify manual tap position at time of order) 50 - 60 Hz ± 10% Any	<i>Model 620</i> Full Load Rating Overload (10% duty cycle)	600 amps continuous 1000 amps for 1 minute
	Protection	Over/undervoltage, loss of phase, overcurrent, short circuit. Voltage transient protection IAW IEEE C62.41.1, Location Cat. B/C	(10% duty cycle) 35 seconds or 2000 amp seconds	Adjustable up to 1600 amps for 35 seconds or 2000 amps for 30 seconds 28 VDC, 2 wire, grounded
	Inrush Current	No greater than 100% of full load current	Voltage Regulation 100% continuous rated load 	negative ± 0.5% over any nominal input voltage range
	Acoustical Noise Temperature Range	< 65 dBA maximum at 5 feet (1.5m) -40°C to +55°C	 No load to rated load with nominal input voltage 	± 0.5%
	EMI/RFI Relative Humidity	Compatible with aircraft systems 10 - 95%, Non-Condensing	 Overload with nominal input voltage 	See start mode curves
	Ingress of Water	Type 3SX, IP55	Voltage Adjust	28 VDC ± 10%
			Current Limit Adjust	150A to full rated current
			Protection	Overload, short circuit, over voltage and safety disconnect
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OUTPUT:

FIGURE 1



Power Regulation

10%

Specifications subject to change without notice