

MOBILE PWRKART® GROUND POWER UNIT

UDC SERIES 28VDC

425 OR 600 AMP

The UDC PwrKart Series mobile aircraft ground power units are ideal for applications in commercial, general aviation, and military hangars and ramp areas world-wide. With one of the smallest weight-to-power ratios in the GSE market, the mobile ground power units are easily maneuvered (pushed) by a single person. The UDC Series can also be supplied in different mounting configurations; such as fixed to the floor or to the wall.

The UDC PwrKart Series provides industry standard ratings of either 425A or 600A continuously with starting currents up to 2,000A peak while being powered by 208 to 480 VAC, 50/60 Hz, thus making the unit universally accepted.

STANDARD FEATURES

IP55

CERTIFIED TO UL 1012 AND CSA

INDOOR/OUTDOOR USE (HANGAR/RAMP)

Unitron

AUTOMATIC INPUT LINE MONITORING

8000 EVENT LOG / DIAGNOSTICS

TCP/IP/ETHERNET INTERFACE (MODBUS)

10% Automatic Line Drop Compensation

Internal Communication Ports - USB, RJ45 (Ethernet),

RS485 (Modbus), AND 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 AND OUTPUT CABLE HANDLE

MAINTENANCE FREE WHEELS

INPUT HIGH VOLTAGE TRANSIENT PROTECTION

OUTPUT CURRENT LIMIT ADJUST FROM 150 TO FULL RATED CURRENT

Multi-Language Display (English, French, German, Italian,

SPANISH, OTHERS AVAILABLE - SPECIFY)

OPTIONS AVAILABLE

ALTERNATE 3Ø INPUT VOLTAGE RANGE AVAILABLE - 575-600VAC

VARIOUS CONVENIENCE OUTLETS (SPECIFY VOLTAGE AND FREQUENCY)

50 or 100 Foot Input Power Cable (Plug Ready)

9 OR 12 INCH TOP CABLE STORAGE RACK

DC OUTPUT POWER CABLE WITH PLUG (UP TO 65 FEET)

OUTPUT UNIVERSAL AIRCRAFT SAFETY INTERLOCK CIRCUIT DISCONNECT (SINGLE OUTPUT ONLY)

EXTERNAL COMMUNICATION PORT - ETHERNET

OUTPUT SAFETY CONTACTOR

BENCH TOP VOLTAGE ADJUST

Universal Input Auto Ranging

≤ 5% INPUT CURRENT DISTORTION AT MAX LOAD

SECOND 28VDC OUTPUT (CONTACT FACTORY)

Trailer Mounting Configurations Available

CUSTOM PAINT AND DECALS (STANDARD COLOR - WHITE)

LOCKABLE FRONT DOOR

CE MARK CERTIFIED

PNEUMATIC RAMP TIRES OR SOLID CORE CASTERS

SPECIFICATIONS / STANDARDS (MEETS OR EXCEEDS)

NFPA 70 (NEC 500) ISO 6858 MIL-STD-1472 ISO 1540 MIL-STD-704F ISO 461-1/2



INPUT

VOLTAGE 208-240V AND 380-480V, ±10%, 3Ø, 3 or 4 Wire Plus Ground

(SPECIFY MANUAL TAP POSITION AT

TIME OF ORDER)

FREQUENCY

50 - 60 Hz ±10%

PHASE ROTATION **PROTECTION**

OVER/UNDER VOLTAGE, 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

ENVIRONMENTAL

ACOUSTICAL NOISE <65 dBA Maximum at 5 Feet (1.5m) TEMPERATURE RANGE -40°C to +55°C EMI / RFI COMPATIBLE WITH AIRCRAFT SYSTEMS **ENCLOSURE** NEMA 250 - Type 3SX 10 - 95%. Non-Condensing RELATIVE HUMIDITY INGRESS OF WATER TYPE 3SX, IP55

OUTPUT

MODEL 420

FULL LOAD RATING OVERLOAD (10% DUTY CYCLE)

425 AMPs Continuous 600 AMPs for 1 Hour 1000 AMPs for 1 MINUTE

ADJUSTABLE UP TO 1600A FOR 30 SEC

OR 2000A FOR 10 SEC

MODEL 620

VOLTAGE

FULL LOAD RATING OVERLOAD (10% DUTY CYCLE)

600 AMPs Continuous 1000 AMPs for 1 MINUTE

ENGINE START CAPACITY

ENGINE START CAPACITY

(10% DUTY CYCLE)

ADJUSTABLE UP TO 2000A FOR 30 SEC

(10% DUTY CYCLE)

28VDC, 2 WIRE, GROUNDED NEGATIVE

VOLTAGE REGULATION

· 100% Continuous Rated Load AND ±10% INPUT VOLTAGE

 $\pm 0.5\%$

· No Load to Rated Load with Nominal Input Voltage

 $\pm 0.5\%$

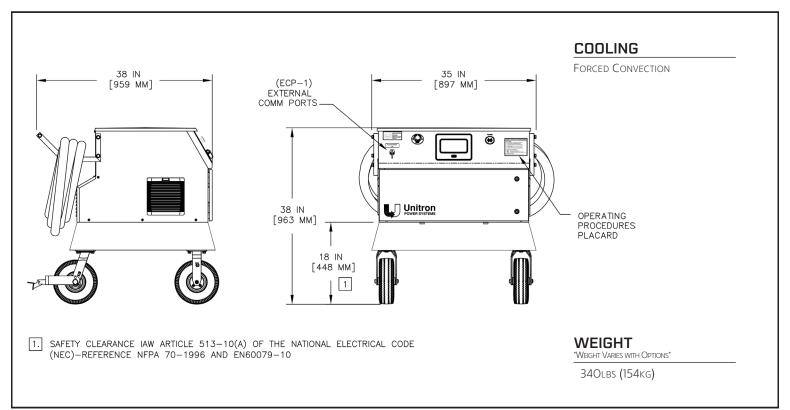
VOLTAGE ADJUST **CURRENT LIMIT ADJUST PROTECTION**

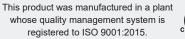
28VDC ±10% 150A TO FULL RATED CURRENT

> OVERLOAD, SHORT CIRCUIT, OVER VOLTAGE, AND

TRANSIENT DISCONNECT 10%

Automatic Line Drop Compensation (ALDC)





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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE