

TOWABLE PWRKART® GROUND POWER UNIT

UFC SERIES 400HZ

20, 30, or 45kVA

The PwrKart Series provides 115/200VAC, 400Hz with an option to provide 28VDC or 270VDC. The converters are designed to provide aircraft ground power in support of hangar and ramp aircraft

maintenance activities and on flight lines. These 400Hz Ground Power Units (GPUs) range from 20kVA to 90kVA. These units are also available in push, fixed and bridge-mounted configurations.

STANDARD FEATURES

IP55

CERTIFIED TO UL 1012 AND CSA

3 Phase, 380-480VAC INPUT

INDOOR/OUTDOOR USE (HANGAR/RAMP)

10% AUTOMATIC LINE DROP COMPENSATION

AUTOMATIC INPUT LINE MONITORING

ADVANCED INTEGRATED DISPLAY (AID™) CONSOLE

8000 EVENT LOG / DIAGNOSTICS

TCP/IP/ETHERNET INTERFACE (MODBUS)

INTERNAL COMMUNICATION PORTS - USB, RJ45 (ETHERNET),

RS485 (Modbus), and RS232

EXTERNAL COMMUNICATION PORTS - USB

EMERGENCY POWER "OFF" SWITCH

18 INCH HAZARD AREA CLEARANCE

I/O VOLTAGE, CURRENT, AND FREQUENCY MONITORING

ELAPSED TIME METER ACCESS

SLEEP MODE

FRONT PANEL VOLTAGE ADJUST

FRONT PANEL SUMMARY FAULT INDICATORS

INPUT AND OUTPUT CABLE RACKS

PNEUMATIC RAMP TIRES

SINGLE INPUT CONNECTOR

INPUT HIGH VOLTAGE TRANSIENT PROTECTION

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

SPANISH, OTHERS AVAILABLE - SPECIFY)

OPTIONS AVAILABLE

ALTERNATE INPUT VOLTAGE AVAILABLE - (SPECIFY)

VARIOUS CONVENIENCE OUTLETS (SPECIFY VOLTAGE AND FREQUENCY)

50 or 100 Foot Input Power Cable (Plug Ready)

AC OUTPUT POWER CABLE WITH PLUG (SPECIFY REQUIRED LENGTH)

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

≤ 5% INPUT CURRENT DISTORTION AT MAX LOAD

15% AUTOMATIC LINE DROP COMPENSATION

FRONT EXTERNAL COMMUNICATION PORT - ETHERNET

SECOND 28VDC OUTPUT OR 270VDC

300% Overload for 6 Seconds or 425% Overload for 1 Second* (Specify)

NO BREAK POWER TRANSFER COMPATIBLE

BENCH TOP VOLTAGE ADJUST

CUSTOM PAINT AND DECALS (STANDARD COLOR - WHITE)

CE MARK CERTIFIED

GROUND FAULT MONITOR

LOCKABLE FRONT DOOR

NEUTRAL INTERRUPT PROTECTION

Universal Safety Interlock

*IAW MIL-STD-704F AND ISO 6858:2017

SPECIFICATIONS / STANDARDS (MEETS OR EXCEEDS)

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

*DEFINED BASIS OF CE MARK CERTIFICATION

AC INPUT

INPUT CURRENT DISTORTION ≤ 5%, TYPICALLY 3% 380-480V. +10%. -15%. 3Ø. VOLTAGE 3 or 4 Wire Plus Ground

(ALTERNATIVE VOLTAGES AVAILABLE)

45 - 65 Hz ±10% **FREQUENCY** 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

NO GREATER THAN 100% INRUSH CURRENT

OF FULL LOAD CURRENT

ENVIRONMENTAL

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

ENERGY FACTORS

EFFICIENCY 94% TYPICAL AT FULL LOAD, 92% TYPICAL AT HALF LOAD;

(VARIES DEPENDING ON CONFIGURATION AND RATING)

AC OUTPUT

POWER RATING 20, 30, or 45 kVA (Specify) POWER FACTOR RANGE 0.5 LAGGING TO 0.8 LEADING 100% Continuous OVERLOAD 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**

 $1.414 \pm 3\%$

VOLTAGE REGULATION ±1.0% UNDER ALL CONDITIONS OF LINE, BALANCED LOADS AND TEMPERATURE

VOLTAGE TRANSIENT IAW MIL-STD-704F

FREQUENCY REGULATION 400Hz ± 0.01% UNDER ALL CONDITIONS OF LINE, LOAD AND TEMPERATURE

FREQUENCY TRANSIENTS NONE

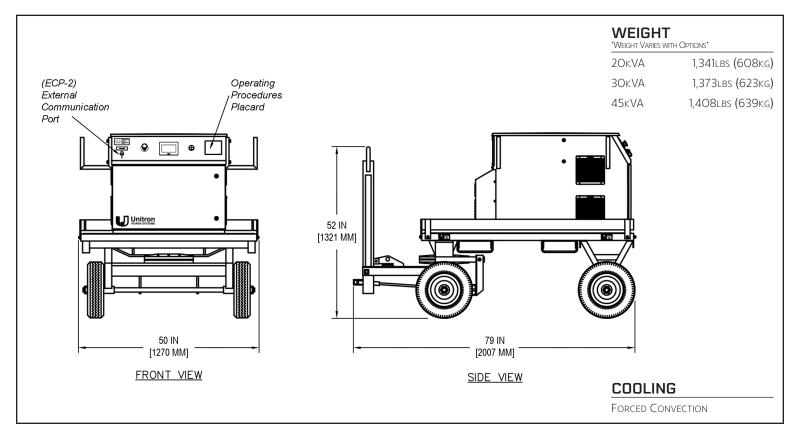
Phase Angle Regulation ±1° FOR BALANCED LOADS: ±2° FOR UNBALANCED LOADS

HARMONIC DISTORTION 2.0% MAXIMUM

PROTECTION OVERLOAD, SHORT CIRCUIT, OVER/UNDER VOLTAGE, AND SAFETY DISCONNECT

AUTOMATIC LINE DROP 10% COMPENSATION (ALDC)

*ALSO AVAILABLE 120/208 VAC, ADJUSTABLE ± 10%



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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