



MOBILE PWRKART® GROUND POWER UNIT

UFC SERIES 400Hz

20, 30, OR 45kVA

The PwrKart Series is a 400Hz mobile GPU designed to be a lighter weight unit that can be maneuvered by a single individual around the hangar or ramp area.

STANDARD FEATURES

- IP55
- CERTIFIED TO UL 1012 AND CSA
- 3 PHASE, 380 - 480 VAC INPUT
- INDOOR/OUTDOOR USE (HANGAR/RAMP)
- 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 PORT - 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 HANDLE
- INPUT HIGH VOLTAGE TRANSIENT PROTECTION
- MULTI-LANGUAGE DISPLAY (ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH, OTHERS AVAILABLE - SPECIFY)

SPECIFICATIONS / STANDARDS (MEETS OR EXCEEDS)

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|-------------------|----------|-------------|
| NFPA 70 (NEC 500) | ISO 6858 | ISO 461-1/2 |
| 2006/95/EC** | ISO 1540 | DFS-400 |

**DEFINED BASIS OF CE MARK CERTIFICATION

OPTIONS AVAILABLE

- ALTERNATE INPUT VOLTAGE AVAILABLE - (SPECIFY)
- 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)
- OUTPUT UNIVERSAL AIRCRAFT SAFETY INTERLOCK CIRCUIT DISCONNECT (SINGLE OUTPUT ONLY)
- EXTERNAL COMMUNICATION PORT - ETHERNET
- ≤5% INPUT CURRENT DISTORTION AT MAX LOAD
- 15% AUTOMATIC LINE DROP COMPENSATION
- OUTPUT SAFETY DISCONNECT
- 28VDC OUTPUT
- BENCH TOP VOLTAGE ADJUST
- NO BREAK POWER TRANSFER COMPATIBLE
- CUSTOM PAINT AND DECALS (STANDARD COLOR - WHITE)
- CE MARK CERTIFIED
- GROUND FAULT MONITOR
- LOCKABLE FRONT DOOR
- PNEUMATIC RAMP TIRES
- ALTERNATE MOUNTING CONFIGURATIONS AVAILABLE
- NEUTRAL INTERRUPT PROTECTION

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|--------------|-----------------------|---------------|
| MIL-STD-1472 | EN 60079-10 | UFGS 26 35 43 |
| MIL-STD-704F | EN 61000-6-2 AND -4** | SAE ARP 5015 |

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



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AC INPUT

VOLTAGE*	380-480V, +10%, -15%, 3Ø, 3 OR 4 WIRE PLUS GROUND (ALTERNATIVE VOLTAGES AVAILABLE)
FREQUENCY	50 - 60 Hz ±10%
PHASE ROTATION	ANY
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, NON-CONDENSING
ENCLOSURE	NEMA 250 - TYPE 3SX
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 AND RATING)
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AC OUTPUT

POWER RATING	20, 30, OR 45 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 (45kVA) 300% FOR 20 SEC (30kVA) 450% FOR 20 SEC (20kVA)
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 TRANSIENT	I AW 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 PROTECTION	2.0% MAXIMUM OVERLOAD, SHORT CIRCUIT, OVER/UNDER VOLTAGE, AND SAFETY DISCONNECT
AUTOMATIC LINE DROP COMPENSATION (ALDC)	10%

NOTE

*FOR CE MARK APPLICATIONS SPECIFY OPTION I-5

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

