

Unitron

**POWER SYSTEMS** 

# 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 manuevered 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<sup>™</sup>) 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)

NFPA 70 (NEC 500)	ISO 6858	ISO 461-1/2
2006/95/EC**	ISO 1540	DFS-400
**DEEINED BASIS OF CE MARK CERTIFICA	TION	

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



**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

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

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## AC INPUT

**ENERGY FACTORS** 

**EFFICIENCY** 

Voltage*	380-480V, +10%, -15%, 3Ø,	Power Rating	20, 30, or 45 kVA (Specify)
	3 or 4 Wire Plus Ground (Alternative Voltages Available)	Power Factor Range	0.5 Lagging to 0.8 Leading
Faceurau		Overload	100% Continuous
FREQUENCY	50 - 60 Hz ±10%		110% for 60 Min 125% for 10 Min
Phase Rotation	Any		150% for 2 Min
Protection	Over/Under Voltage, Loss of Phase, Over Current, Short Circuit.		200% for 20 Sec (45kVA)
	Voltage Transient Protection IAW		300% for 20 Sec (30kVA) 450% for 20 Sec (20kVA)
	IEEE C62.41.1, LOCATION CAT. B/C		
Inrush Current	No Greater than 100%	VOLTAGE**	115/200 Volts, 3Ø, 4 Wire, Grounded Neutral
	OF FULL LOAD CURRENT	Voltage Adjust**	±15%
		CREST FACTOR	1.414 ± 3%
		Voltage Regulation	±1.0% Under All Conditions of Line,
			Balanced Loads and Temperature
ENVIRONMENTAL		Voltage Transient	IAW MIL-STD-704F
Acoustical Noise	<65 dBA Maximum at 5 Feet (1.5m)	Frequency Regulation	400Hz ±0.01% Under All Conditions
Temperature Range	-40°C to +55°C, Non-Condensing		of Line, Load and Temperature
Enclosure	NEMA 250 - Type 3SX	Frequency Transients	None
Relative Humidity	10 - 95%, Non-Condensing	Phase Angle Regulation	±1° for Balanced Loads;
Ingress of Water	Type 3SX, IP55		±2° for Unbalanced Loads

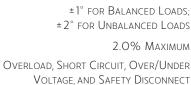
PROTECTION

Automatic Line Drop COMPENSATION (ALDC)

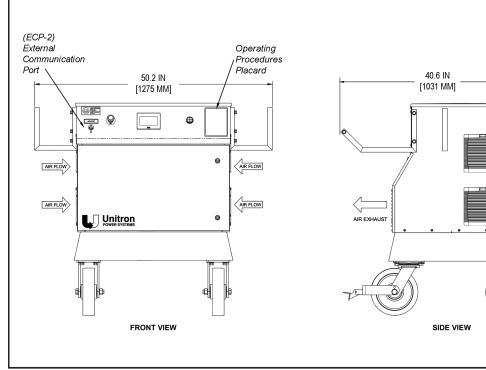
HARMONIC DISTORTION

AC OUTPUT

\*FOR CE MARK APPLICATIONS SPECIFY OPTION I-5 \*\*Also Available 120/208 VAC, Adjustable ± 10%



10%



COOLING Forced Convection

#### WEIGHT \*WEIGHT VARIES WITH OPTIONS\* 20κVΑ 453LBS (205KG) ЗОкVА 510LBS (231KG) 45ĸVA 597LBS (271KG)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



44.8 IN

[1138 MM]

6P-Rev M

Note

(VARIES DEPENDING ON CONFIGURATION AND RATING)

94% Typical at Full Load, 92% TYPICAL AT HALF LOAD;