



FIXED 400HZ/270VDC GROUND POWER UNIT **UFC SERIES COMBINATION AC/DC** 90KVA AND 270VDC

The fixed Low ProFile[™] unit provides up to 180kVA with optional 72kW of 270VDC output power. This power unit is designed to service the largest commercial and military aircraft on the market today. The dual outputs provided can be single source controlled, be individually voltage regulated and line drop compensated.

STANDARD FEATURES

IP55

Certified to UL 1012 ≤5% INPUT CURRENT DISTORTION AT MAX LOAD INDOOR / OUTDOOR (HANGAR / RAMP) USE 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** 15% Automatic Line Drop Compensation EMERGENCY POWER "OFF" SWITCH I/O VOLTAGE, CURRENT, AND FREQUENCY MONITORING ELAPSED TIME METER ACCESS FRONT PANEL VOLTAGE ADJUST TOUCH SCREEN FRONT PANEL 4 INCH LEG KIT SLEEP MODE (IF ENABLED) FRONT PANEL SUMMARY FAULT INDICATORS 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) AC OUTPUT POWER CABLES WITH PLUGS (AVAILABLE IN 30 OR 60 FT LENGTHS) 270VDC OUTPUT POWER CABLES WITH PLUGS (AVAILABLE IN 63 OR 83 FT LENGTHS) 300% OVERLOAD FOR 6 SECONDS NON LINEAR LOAD CUSTOM PAINT AND DECALS (STANDARD COLOR - WHITE) GROUND FAULT MONITOR LOCKABLE FRONT DOOR CSA OR CE MARK CERTIFIED NO BREAK POWER TRANSFER COMPATIBLE (400Hz OUTPUT) STAND - 12, OR 18 INCH NEUTRAL INTERRUPT PROTECTION UNIVERSAL AIRCRAFT SAFETY INTERLOCK (SINGLE OR DUAL)

SPECIFICATIONS / STANDARDS

NFPA 70 (NEC 500)	DFS-400	ISO 6858
EN 60079-10	SAE ARP 5015	ISO 1540
EN 61000-6-2 and -4**	UFGS 26 35 43	ISO 461-1/2
MIL-STD-1472	UFGS 26 35 44	2006/95/EC**
MIL-STD-704	Lockheed Martin F	-35 Ground

ELECTRICAL POWER INTERFACE SPECIFICATION (DOCUMENT NO. 2ZEU0004, Rev-0007)

**DEFINED BASIS OF CE MARK CERTIFICATION



AC INPUT

INPUT CURRENT DISTORTION Voltage

Frequency Phase Rotation Protection

INRUSH CURRENT

AC OUTPUT

Power Rating Power Factor Range Overload

VOLTAGE*

Voltage Adjust* Voltage Regulation

Voltage Transient Frequency Regulation

Frequency Transients Phase Angle Regulation

Harmonic Distortion Protection

AUTOMATIC LINE DROP COMPENSATION (ALDC)

ENERGY FACTORS

EFFICIENCY

≤ 5%, TYPICALLY 3% 380-480V, +10%, -15%, 3Ø, 3 or 4 Wire Plus Ground (Specify) 50 - 60 Hz ±10% Any 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% of Full Load Current

90 KVA 0.5 LAGGING TO 0.8 LEADING 100% CONTINUOUS: 110% FOR 60 MIN; 125% FOR 10 MIN; 150% FOR 2 MIN; 200% FOR 20 SEC 115/200 VOLTS, 3Ø, 4 WIRE, GROUNDED NEUTRAL 15% ±1.0% UNDER ALL CONDITIONS OF LINE, BALANCED LOADS AND TEMPERATURE IAW MIL-STD-704F 400Hz ±0.01% UNDER ALL CONDITIONS OF LINE, LOAD AND TEMPERATURE NONE ±1° FOR BALANCED LOADS ±2° FOR UNBALANCED LOADS

2.0% Maximum Overload, Short Circuit, Over/Under Voltage, and Safety Disconnect 15%

> 94% Typical at Full Load, 92% Typical at Half Load; (Varies Depending on Configuration and Rating)

28VDC OUTPUT

Overload	,	150% for 10 Sec; 250% for 100 mSec
CURRENT RATING		15 Amps Continuous
Voltage	28 V	DC, 2 Wire, Grounded
Voltage Adjust		28 VDC ± 10%
VOLTAGE REGULATION		±0.5%
Output Ripple Voltage		150 mV pk to pk
Protection	Overload, Short	CIRCUIT, OVER VOLTAGE

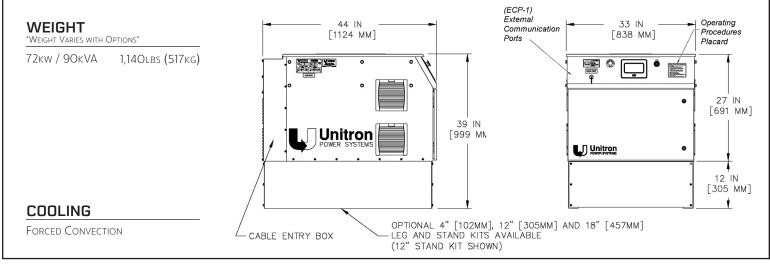
270VDC OUTPUT

Power Rating		72 KW
Overload / Transient (IAW LMCO Document No. 2ZEU00004, rev-0007)		150% for 10 Sec; 250% for 100 mSec
Pulse Loads		LMCO DOCUMENT NO. EUOOOO4, Rev-0007
Voltage	270 VDC, 2 Wire, Grounded Negative	
Voltage Adjust		270 VDC ± 10%
Voltage Regulation		
 100% Continuous Rated I and ± 10% Input Voltage 	_OAD	±0.5%
 No Load to Rated Load with Nominal Input Voltage 	ΓH	±0.5%
Output Ripple Voltage		3.0 Volts pk to pk
Transient Response		04F, Fig. 16 AND LMCO 1000004, REV-0007
Protection		d, Short Circuit, Over and Safety Disconnect
Automatic Line Drop Compensation (ALDC)		10%

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 Corrosion Resistant
Relative Humidity	10 - 95%, Non-Condensing
Ingress of Water	Type 3SX, IP55

Notes - *Also Available 120/208 VAC, Adjustable ± 10%



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

