

FIXED 400HZ/270VDC GROUND POWER UNIT

UFC SERIES COMBINATION AC/DC

120, 150, or 180kVA 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 ≤ 5%, TYPICALLY 3% 380-480V, +10%, -15%, 3Ø, **VOLTAGE** 3 or 4 Wire Plus Ground (Specify)

50 - 60 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

INRUSH CURRENT NO GREATER THAN 100% OF FULL LOAD CURRENT

AC OUTPUT

VOLTAGE ADJUST*

VOLTAGE TRANSIENT

POWER RATING 120, 150, or 180 kVA POWER FACTOR RANGE O.5 LAGGING TO O.8 LEADING OVFRI OAD 100% CONTINUOUS: 110% FOR 60 MIN;

125% FOR 10 MIN: 150% FOR 2 MIN; 200% FOR 20 SEC

115/200 Volts, 3Ø, 4 Wire, VOLTAGE* GROUNDED NEUTRAL

15%

IAW MIL-STD-704F

15%

VOLTAGE REGULATION ±1.0% UNDER ALL CONDITIONS OF LINE,

BALANCED LOADS AND TEMPERATURE

FREQUENCY REGULATION 400Hz ±0.01% UNDER ALL CONDITIONS

OF LINE, LOAD AND TEMPERATURE

FREQUENCY TRANSIENTS

Phase Angle Regulation ±1° FOR BALANCED LOADS

±2° FOR UNBALANCED LOADS 2.0% MAXIMUM

PROTECTION OVERLOAD, SHORT CIRCUIT, OVER/UNDER

VOLTAGE, AND SAFETY DISCONNECT

AUTOMATIC LINE DROP COMPENSATION (ALDC)

HARMONIC DISTORTION

ENERGY FACTORS

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

> (VARIES DEPENDING ON CONFIGURATION AND RATING)

28VDC OUTPUT

OVERLOAD 100% CONTINUOUS: 150% FOR 10 SEC:

200% FOR 2 SEC; 250% FOR 100 MSEC

15 AMPS CONTINUOUS

CURRENT RATING **VOLTAGE** 28 VDC, 2 Wire, Grounded VOLTAGE ADJUST 28 VDC ± 10%

VOLTAGE REGULATION $\pm 0.5\%$ OUTPUT RIPPLE VOLTAGE 150 MV PK TO PK

PROTECTION OVERLOAD, SHORT CIRCUIT, OVER VOLTAGE

270VDC OUTPUT

POWER RATING 72 KW

OVERLOAD / TRANSIENT 100% CONTINUOUS: 150% FOR 10 SEC: (IAW LMCO DOCUMENT NO. 200% FOR 2 SEC; 250% FOR 100 MSEC 2ZEU00004, REV-0007)

PULSE LOADS IAW LMCO DOCUMENT NO. 2ZEU00004, REV-0007

VOLTAGE 270 VDC, 2 WIRE, GROUNDED NEGATIVE VOLTAGE ADJUST 270 VDC ± 10%

VOLTAGE REGULATION

■ 100% CONTINUOUS RATED LOAD $\pm 0.5\%$ AND ± 10% INPUT VOLTAGE

■ No Load to Rated Load with ±0.5% Nominal Input Voltage

OUTPUT RIPPLE VOLTAGE 3.0 Volts PK to PK

IAW MIL-STD-704F, Fig. 16 AND LMCO TRANSIENT RESPONSE

Doc. No. 2ZEU00004, REV-0007 **PROTECTION** OVERLOAD, SHORT CIRCUIT, OVER

VOLTAGE, AND SAFETY DISCONNECT AUTOMATIC LINE DROP 10%

COMPENSATION (ALDC)

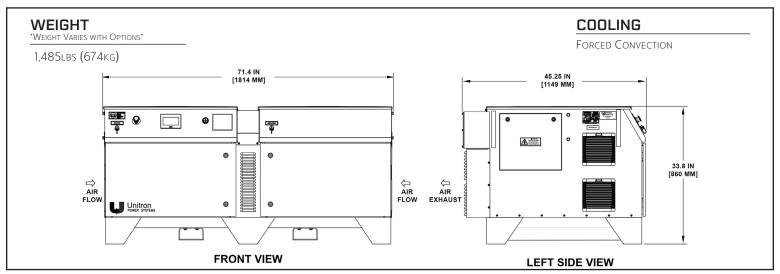
ENVIRONMENTAL

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

R_EVS

