

FED. SUP CLASS  
 6130

**FRONT VIEW**

**SIDE VIEW**

(c) A SUITABLE BARRIER IS REQUIRED BETWEEN THE POSITIVE AND NEGATIVE TERMINAL STUDS TO PREVENT SHORTING OF INSTALLATION WIRING LOGS.

**INPUT**

VOLTAGE (NOMINAL) 115/200V  
 FREQUENCY (NOMINAL) 400 CPS  
 PHASE 3

**OUTPUT**

VOLTAGE DC 28V  
 RATED CURRENT 100 AMP

**EFFICIENCY**

AT SEA LEVEL 25 °C, 85% MIN  
 POWER FACTOR 95% MIN

**WEIGHT** 10.0 LBS MAX

CONVERTER

A — 8A } 3 PHASE  
 B — 8F }  
 C — 8C } A-C  
 D — NEUT } INPUT

+ — 1-C }  
 - — OUTPUT

INPUT PHASE ROTATION A, E, C

Conditions listed below the output voltage shall remain within the indicated range.					
Conditions					
Temp. °C	Frequency	Input Volts	Output Volts	Load (Amp)	
25° ±15°	400	200	30.5 max	0	
25° ±15°	400	200	28.0 ±0.25	10	
25° ±15°	400	200	27.7 ±0.25	25	
25° ±15°	400	200	27.25 ±0.25	50	
25° ±15°	400	200	26.5 ±0.25	100	
125° ±15°	380	195	24.5 min	100	
125° ±15°	420	210	32.0 max	0	
125° ±15°	400	195	26.0 min	50	
125° ±15°	400	210	29.0 max	50	

**NOTE:**

COOLING - THE UNIT SHALL BE FAN COOLED AND SHALL MEET THE TEMPERATURE-ALTITUDE REQUIREMENTS OF MS33545, CURVE 1.

FIVE-MINUTE OVERLOAD RATING - WHEN A 150 PERCENT OVERLOAD IS APPLIED, THE OUTPUT VOLTAGE SHALL BE NOT LESS THAN 24.5V.

ONE-MINUTE OVERLOAD RATING - WHEN A 250 PERCENT OVERLOAD IS APPLIED, THE OUTPUT VOLTAGE SHALL BE NOT LESS THAN 23V MIN.

PARALLEL OPERATION - WHEN TWO UNITS ARE CONNECTED IN PARALLEL, THE DIFFERENCE IN LOAD CURRENTS OF EACH UNIT SHALL NOT EXCEED 5 PERCENT OF THE COMBINED LOADS OF THE TWO UNITS. THE TEST SHALL BE CONDUCTED AT COMBINED LOADS OF 100, 150, AND 200 AMP. AND THE INPUT SHALL BE MAINTAINED AT 200V 400 CPS ON BOTH UNITS.

TYPE - THE POWER SUPPLY SHALL BE TYPE II.

INDIVIDUAL TESTS SHALL BE CONDUCTED AT ROOM TEMPERATURE.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: DECIMALS ±.015.

FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

ENTIRE STANDARD REDRAWN

P.A. Air Force  
Other Cust

TITLE

POWER SUPPLY ECO-45/A

MILITARY STANDARD

MS 27209 (USAF)

PROCUREMENT SPECIFICATION

SUPERSEDES:

SHEET / OF /

APPROVED 23 MAY 1962 REVISED (A) 15 JUNE 1962 (B) 14 SEP 64