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FED. SUP CLASS
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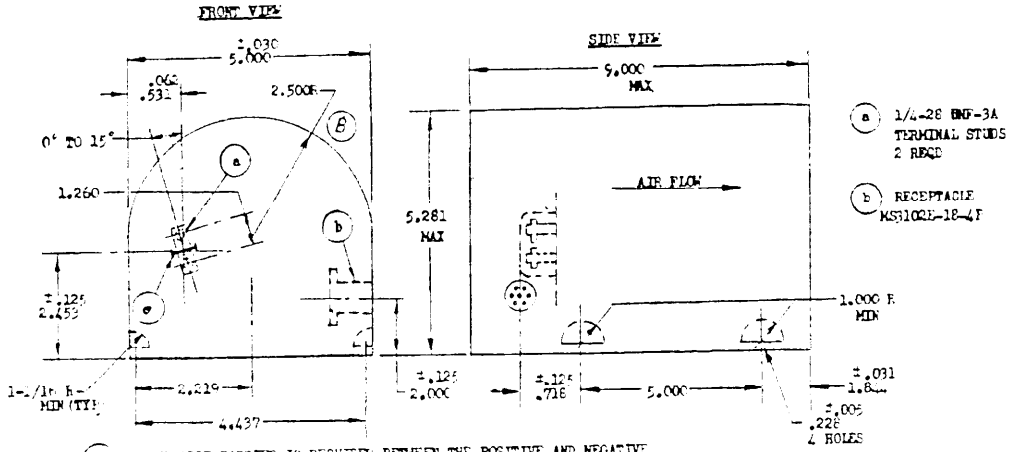
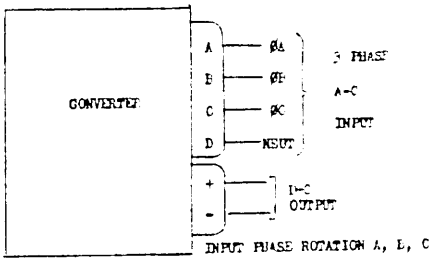


c A SUITABLE BARRIER IS REQUIRED BETWEEN THE POSITIVE AND NEGATIVE TERMINAL STUDS TO PREVENT SHORTING OF INSTALLATION WIRING LUGS.

INPUT	
VOLTAGE (NOMINAL)	115/200V
FREQUENCY (NOMINAL),	400 CPS
PHASE	3
OUTPUT	
VOLTAGE DC	28V
RATED CURRENT	100 AMP
EFFICIENCY	
AT SEA LEVEL 25 ±15°C,	85% MIN
POWER FACTOR	95% MIN
WEIGHT	10.0 LBS MAX



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°	380	195	24.5 min	100
-65°	420	210	32.0 max	0
125°	400	195	26.0 min	50
-65°	400	210	29.0 max	50

NOTES:

COOLING - THE UNIT SHALL BE FAN COOLED AND SHALL MEET THE TEMPERATURE-ALTITUDE REQUIREMENTS OF MS33543, CURVE I.

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

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

P.A. Air Force Other Cust	TITLE POWER SUPPLY ECU-45/A	MILITARY STANDARD MS 27209 (USAF)
PROCUREMENT SPECIFICATION	SUPERSEDES:	SHEET 1 OF 1

NOTICE—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definitely related Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

This standard has been approved by the Department of the Air Force and is mandatory for use by the activity. All other military activities are required to employ this standard where suitable.