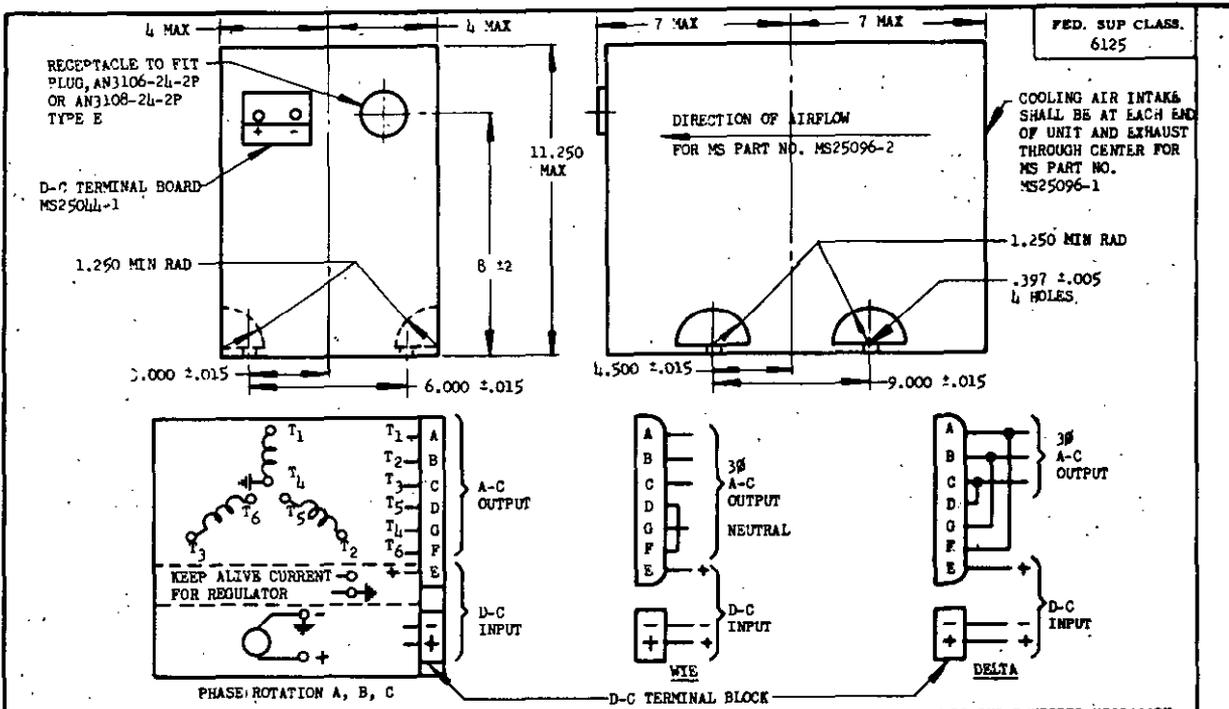


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FED. SUP CLASS. 6125

COOLING AIR INTAKE SHALL BE AT EACH END OF UNIT AND EXHAUST THROUGH CENTER FOR MS PART NO. MS25096-1

CONNECTIONS EXTERNAL TO THE INVERTER NECESSARY FOR WYE (115/200 VOLT) AND DELTA (115 VOLT) CONNECTIONS. FOR 1φ CONNECTION, SEE (a)

MS PART NO.	COOLING AIRFLOW
MS25096-1	DUPLEX
MS25096-2	SIMPLEX

INPUT: VOLTS, DC	3φ	1φ
	OUTPUT: VOLTS, AC	28
FREQUENCY, CPS	115/200	115
VA TO 50,000 FEET ALTITUDE	400	400
VA TO 65,000 FEET ALTITUDE	1500	1500
PF MIN LAG, PERCENT	750	750
PF MIN LEAD, PERCENT	90	90
MIN OUTPUT VOLTAGE AT 200 PERCENT RATED CURRENT	95	95
MIN EFFICIENCY: PERCENT AT RATED LOAD, SEA LEVEL, AND 25° ±15°C	50/85	50
WEIGHT, POUNDS, MAX	50	45
	45	45

FOR ANY COMBINATION OF CONDITIONS LISTED BELOW, THE OUTPUT VOLTAGE AND FREQUENCY SHALL REMAIN WITHIN THE INDICATED LIMITS.

CONDITIONS	LIMITS	
	VOLTAGE	FREQUENCY, CPS
INPUT VOLTAGE VARIED BETWEEN 26 AND 29 VOLTS	LOW 110/192	LOW 390
LOAD VARIED FROM 0 TO FULL LOAD	HIGH 120/208	HIGH 410
AMBIENT TEMPERATURE-ALTITUDE VARIED WITHIN THE RANGE ESTABLISHED BY CURVE I OF MS33543, EXCEPT THAT THE AMBIENT TEMPERATURE FOR THIS UNIT SHALL NEVER EXCEED 85°C. THE UNIT SHALL DELIVER RATED OUTPUT TO 50,000 FEET AND 50 PERCENT MIN RATED POWER TO 65,000 FEET.		
LOAD POWER FACTOR VARIED FROM .90 LAG TO .95 LEAD.		

(a) THIS INVERTER DESIGN SHALL BE SUCH THAT IT MAY BE LOADED EITHER 3φ OR 1φ BUT NOT SIMULTANEOUSLY. WHEN USED AS A SINGLE-PHASE INVERTER, THE UNIT SHALL BE CONNECTED IN DELTA AND THE LOAD CONNECTED TO THE TERMINALS A(T₁) AND B(T₂). WHEN USED 3φ, THE LOADS PER PHASE SHALL NOT DIFFER BY MORE THAN 10 PERCENT OF THE INVERTER RATING.

DIMENSIONS IN INCHES.
 THE AIRCRAFT MANUFACTURER SHALL ALLOW CLEARANCE FOR THE MAXIMUM DIMENSIONS SHOWN ON THIS DRAWING FOR INSTALLATION.

THE WEIGHT AND DIMENSIONS SHOWN ON THIS DRAWING SHALL INCLUDE THE WEIGHT AND DIMENSIONS OF ALL AUXILIARY APPARATUS NECESSARY TO MAKE THE UNIT CONFORM TO THE PROCUREMENT SPECIFICATION.

THE MS DESIGNATION SHALL NOT BE SHOWN ON INVERTERS UNTIL APPROVAL HAS BEEN RECEIVED FROM THE QUALIFYING ACTIVITY AND THE INVERTER FULLY MEETS THE REQUIREMENTS OF THE SPECIFICATION AND DRAWING.

A MEANS OF ADJUSTING THE VOLTAGE SHALL BE ON THE CONNECTOR END AND ABOVE THE HORIZONTAL CENTERLINE OF THE INVERTER. PERMISSION OF THE PROCURING ACTIVITY SHALL BE OBTAINED FOR APPLICATION OF THIS UNIT OUTSIDE OF THE SPECIFIED LIMITS.

TWO PLACARDED PIN JACKS SHALL BE PROVIDED ON THE CONNECTOR END AND ABOVE THE HORIZONTAL CENTERLINE OF THE INVERTER BETWEEN WHICH THE VOLTAGE BETWEEN A(T₁) AND G(T₁) CAN BE MEASURED. THE PIN JACKS SHALL ACCEPT A PROD PIN .078 ±.002 INCHES IN DIAMETER.

FOR NAVY APPLICATION, INVERTERS WITH EITHER SIMPLEX OR DUPLEX COOLING AIRFLOW CONFIGURATION ARE ELECTRICALLY AND MECHANICALLY INTERCHANGEABLE WITH EACH OTHER.

THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN.
 REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.

CANCELED AFTER 10 FEBRUARY 1965. USE MS17404. INTERCHANGEABILITY RELATIONSHIP: MS17404 PARTS CANNOT ALWAYS REPLACE THE CANCELED MS25096 PARTS IDENTIFIED BY THE SAME DASH NUMBERS. THE CANCELED MS25096 PARTS CANNOT REPLACE THE MS17404 PARTS.

CUSTODIANS Navy - WP USAF - 82	OTHER INT. A - N - AF -	MILITARY STANDARD	MS25096 (ASG)
INVERTER, 1,500 VA, 3/1 PHASE, CLASS B			
PROCUREMENT SPECIFICATION MIL-I-7032	SUPERSEDES:	SHEET 1	OF 1

APPROVED 27 Oct 54
 REVISED A 20 Jan 56 B 12 Dec 58 C 10 Feb 65