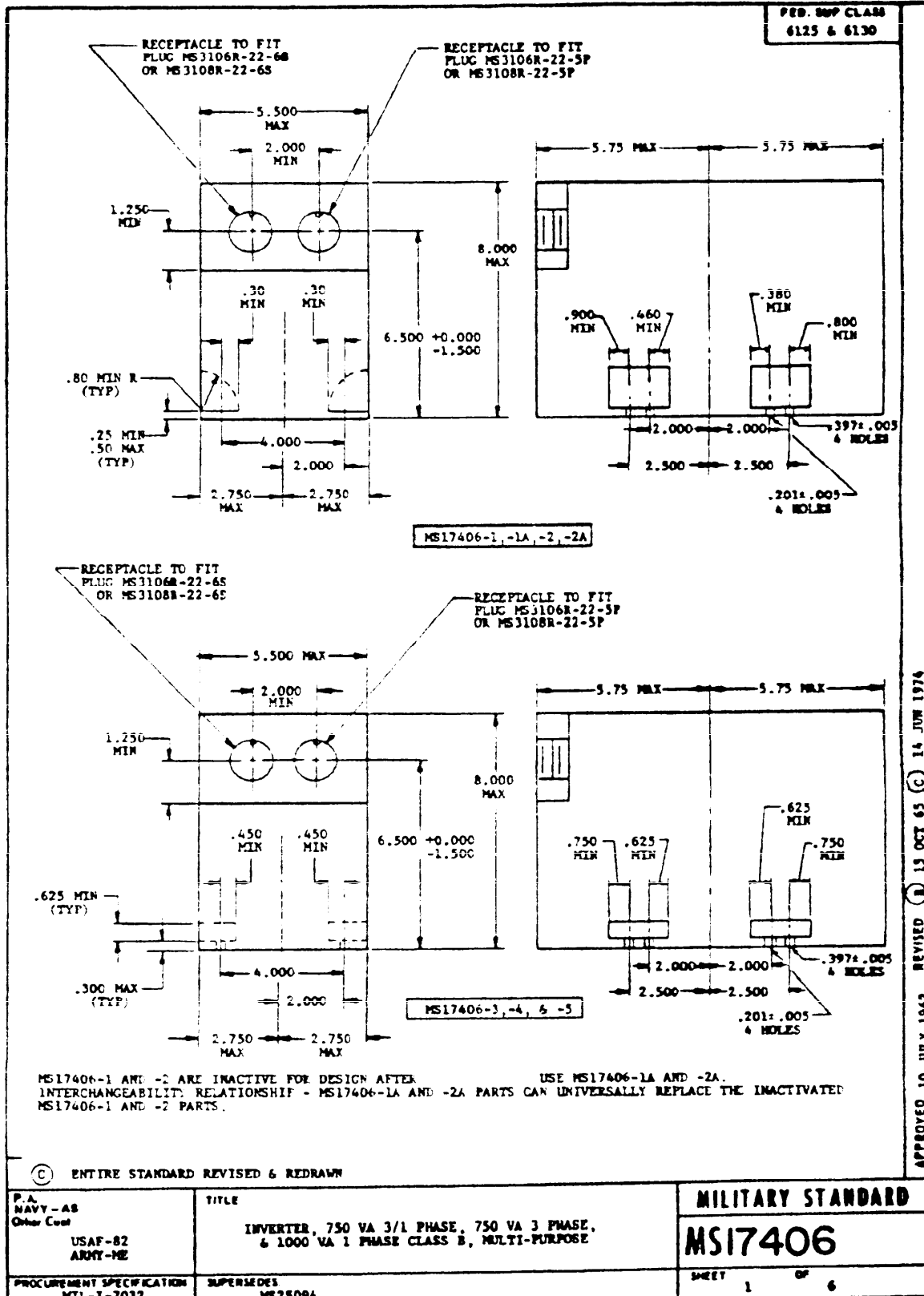


PROJECT NO. 6125-0145

FED. SUP CLASS
6125 & 6130USER SYMBOL:
NAVY
ARMY - ELREVIEWER SYMBOL:
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APPROVED 10 JULY 1962 REVISED 13 OCT 65 14 JUN 1974

DD FORM 1, 672-1 (Coordinated)

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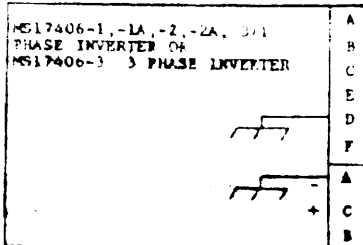
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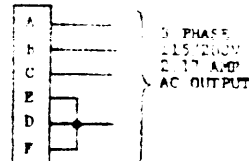
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AC OUTPUT PHASE ROTATION A, B, C

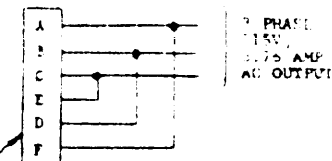


EXTERNAL CONNECTIONS NECESSARY
FOR APPROPRIATE INPUT AND OUTPUT

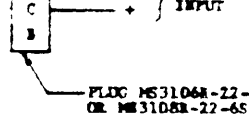
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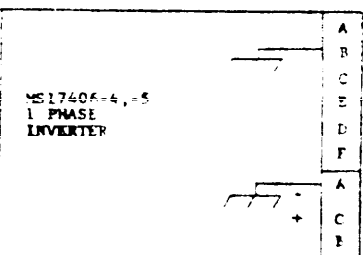
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DC INPUT

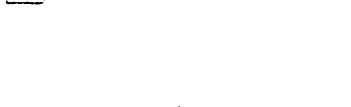


SINGLE PHASE (MS17406-1, -1A, -2, -2A, ONLY)

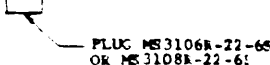


EXTERNAL CONNECTIONS NECESSARY
FOR APPROPRIATE INPUT AND OUTPUT

SINGLE PHASE
115V, 6.52 AMP
AC OUTPUT



DC INPUT



P.A.
NAVY - AS
Other Code

USAF-82
ARMY-NE

TITLE

INVERTER, 750 VA 3/1 PHASE, 750 VA 3 PHASE,
& 1000 VA 1 PHASE, CLASS B, MULTI-PURPOSE

PROCUREMENT SPECIFICATION
MIL-1-7032

SUPERSEDES

MS25094

MILITARY STANDARD

MS17406

SHEET 2 OF 6

DD FORM 672-1 (Coordinated)

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PLATE NO. 2280

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FED. SUP. CLASS
6125 & 6130

TABLE I

PART NO.	DESCRIPTION
MS17406-1	3/1 PHASE 750VA ROTARY BRUSH-TYPE INVERTER WITH AIR EXHAUST FROM CENTER (DUPLEX).
MS17406-1A	SAME AS -1 EXCEPT INCORPORATES OVERVOLTAGE PROTECTION AND TIMER.
MS17406-2	3/1 PHASE 750VA ROTARY BRUSH TYPE INVERTER WITH AIR EXHAUST FROM PLUG END (SIMPLEX).
MS17406-2A	SAME AS -2 EXCEPT INCORPORATES OVERVOLTAGE PROTECTION AND TIMER.
MS17406-3	3 PHASE, 750VA, STATIC INVERTER.
MS17406-4	SINGLE PHASE, 1000 VA, STATIC INVERTER.
MS17406-5	SINGLE PHASE, 1000 VA, LOW INPUT VOLTAGE, STATIC INVERTER.

TABLE II

PARAMETERS AND CONDITIONS	NOMINAL VALUES			
	MS17406-1	-1A	-2	-2A
	3P	1P	3P	1P
INPUT: VOLTS, DC	28	28	28	28
OUTPUT: VOLTS, AC	115/200	115	115/200	115
FREQUENCY: Hz	400	400	400	400
VA TO 50,000 FT ALTITUDE	750	750	750	1000
VA TO 65,000 FT ALTITUDE	375	375	750	750
MIN. LAGGING P.F.	.80	.80	.75	.75
MIN. LEADING P.F.	.95	.95	.95	.95
MIN. EFFICIENCY: PERCENT AT FULL LOAD, UNITY P.F., 28 VOLT INPUT SEA LEVEL AND 25 °C AMBIENT	50	45	65	65
MAX WEIGHT: POUNDS	23	23	23	23

APPROVED 10 JULY 1962 REVISED (C) FOR CHANGES SEE SIZES 1 THRU 6

P.A. NAVY - AS Other Com USAF-82 ARMY-ME	TITLE INVERTER, 750 VA 3/1 PHASE, 750 VA 3 PHASE, & 1000 VA 1 PHASE, CLASS B, MULTI-PURPOSE	MILITARY STANDARD
		MS17406
PROCUREMENT SPECIFICATION MIL-I-7032	SUPERSEDES MS25094	SHEET 3 OF 6

DD FORM 672-1 (Coordinated)

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FORM 5400-00-01

NAVY - EL

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USAF -

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 FED SUP CLASS
6125 & 6130

TABLE III

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

 OUTPUT LIMITS
(LIMITS APPLY TO EACH PHASE FOR THREE PHASE OPERATION)

	MS17406-1, -1A, -2, -2A		MS17406-3 & -4		MS17406-5	
	RMS PHASE VOLTAGE	FREQ (Hz)	RMS PHASE VOLTAGE	FREQ (Hz)	RMS PHASE VOLTAGE	FREQ (Hz)
1. INPUT VOLTAGE VARIED BETWEEN 26 AND 29 VOLTS	LOW	LOW	LOW	LOW	LOW	LOW
2. LOAD VARIED FROM ZERO TO FULL LOAD.	112.5	390	112.5	393	112.5	393
3. AMBIENT TEMPERATURE-ALTITUDE VARIED WITHIN THE RANGE ESTABLISHED BY CURVE 1 OF MS33543 EXCEPT NO OPERATION ABOVE 65,000 FT. ABOVE 85°C OR BELOW -55°C.	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
4. LOAD POWER FACTOR VARIED FROM .75 LAG OR .80 LAG (AS APPLICABLE) TO .95 LEAD.	117.5	410	117.5	407	117.5	407
5. UNIT MOUNTED IN ANY POSITION.						
6. VARIATIONS 2, 3, 5 ABOVE AND INPUT VOLTAGE VARIED BETWEEN 26 AND 26 VOLTS FOR MS17406-1, -1A, -2, -2A INVERTERS AND BETWEEN 18 AND 26 VOLTS FOR MS17406-3, 4, & -5 INVERTERS.	LOW 100(a) HIGH 120(a)	LOW 350(a) HIGH 410(a)	LOW 100 HIGH 117.5	LOW 393 HIGH 407	LOW 100 HIGH 117.5	LOW 393 HIGH 407
7. VARIATIONS 1. THROUGH 5. ABOVE EXCEPT LOAD VARIED FROM RATED FULL LOAD CURRENT TO 200% RATED FULL LOAD CURRENT FOR 5 SECONDS	LOW 50 HIGH 117.5	LOW 385 HIGH 410	LOW 50 HIGH 117.5	LOW 393 HIGH 407	LOW 50 HIGH 117.5	LOW 393 HIGH 407
8. INPUT VOLTAGE VARIED BETWEEN 9 AND 18 VOLTS FOR THREE MINUTES.	NO OPERATION REQUIRED	NO OPERATION REQUIRED	LOW 45 HIGH 117.5	LOW 393 HIGH 407	LOW 105 HIGH 117.5	LOW 393 HIGH 407
9. LOAD IMPEDANCE VARIED FROM INFINITY TO 26.5 OHMS FOR THE MS17406-4 & -5 INVERTERS AND FROM INFINITY TO 106 OHMS/PHASE FOR THE MS17406-3 INVERTER.						
10. AMBIENT TEMPERATURE VARIED BETWEEN -35°C AND +40°C AT SEA LEVEL WITH INVERTER FULLY WARMED UP AND BETWEEN -35°C AND +85°C AT SEA LEVEL WITH INVERTER NOT PREVIOUSLY WARMED UP.						
11. VARIATIONS 4. AND 5. ABOVE.						

(a) FOR THIS CONNECTION, THE LINE-NEUTRAL FREQUENCY/VOLTAGE RATIO SHALL REMAIN BETWEEN 3.0 AND 4.0.

APPROVED 10 JULY 1962 REVISED (C) FOR CHANGES SEE SHEETS 1 THRU 6

P.A. BANK-AS Other Cost	TITLE INVERTER, 750 VA 3/1 PHASE, 750 VA 3 PHASE & 1000 VA 1 PHASE CLASS B, MULTI-PURPOSE	MILITARY STANDARD MS17406
USAF-62 ARMY-HE	PROPOSED MS25094	SHEET 4 OF 6
PROCUREMENT SPECIFICATION MIL-I-7032	REPLACES MS25094	

DD FORM 672-1 (Cover Sheet)

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PLATE NO. 2555

FED. SUP CLASS
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ARMY - ELREVIEW SYMBOLS:
ARMY - AV
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REQUIREMENTS: - MS17406-1, -1A, -2, -2A, -3, -4, -5

1. DIMENSIONS IN INCHES, UNLESS OTHERWISE SPECIFIED. FRACTIONS $\pm 1/64$. DECIMALS $\pm .015$.
2. THE AIRCRAFT MANUFACTURER SHALL ALLOW CLEARANCE OF AT LEAST ONE INCH AT EACH END OF THE INVERTER IN ADDITION TO THE MAXIMUM DIMENSIONS SHOWN ON THIS DRAWING FOR INSTALLATION AND VENTILATION.
3. THE WEIGHT AND DIMENSIONS SHOWN ON THIS DRAWING SHALL INCLUDE THE WEIGHT AND DIMENSIONS OF ALL AUXILIARY APPARATUS NECESSARY TO MAKE THIS PRODUCT CONFORM TO THIS DRAWING AND THE PROCUREMENT SPECIFICATION.
4. THE INVERTER SHALL NOT REQUIRE ANY WARM-UP TO MEET ALL REQUIREMENTS OF THIS DRAWING AND THE PROCUREMENT SPECIFICATION.
5. INVERTERS SHALL BE DESIGNED TO BE REPAIRABLE USING STANDARD OR COMMONLY AVAILABLE TOOLS AND TEST EQUIPMENT.
6. THE INVERTER SHALL REQUIRE NO CONDUCTION COOLING UNDER ANY RATED OPERATING CONDITION.
7. FOR THREE PHASE AIRCRAFT APPLICATIONS, THE LOAD ON ANY ONE PHASE SHALL NOT EXCEED ONE THIRD OF THE TOTAL THREE PHASE INVERTER RATING.
8. PERMISSION OF THE PROCURING ACTIVITY SHALL BE OBTAINED FOR AN APPLICATION OF THIS UNIT OUTSIDE OF THE SPECIFIED LIMITS.

REQUIREMENTS: - MS17406-1, 1A, AND -2, 2A ONLY

9. THE INVERTER MAY BE LOADED EITHER THREE PHASE OR SINGLE PHASE BUT NOT SIMULTANEOUSLY. THE UNIT SHALL OPERATE IN THE PROPER MODE WHEN EXTERNAL CONNECTIONS ARE MADE AS SHOWN IN THE CONNECTION DIAGRAM.
10. A VOLTAGE ADJUSTMENT MEANS SHALL BE LOCATED ON THE CONNECTOR END ABOVE THE HORIZONTAL CENTERLINE OF THE INVERTER.
11. TWO PLACARDED PIN JACKS SHALL BE PROVIDED ON THE CONNECTOR END ABOVE THE HORIZONTAL CENTERLINE OF THE INVERTER BETWEEN WHICH THE VOLTAGE BETWEEN PINS A AND D MAY BE MEASURED. THESE PIN JACKS SHALL ACCEPT A PROO PIN .078" .002 INCH IR DIAMETER.
12. THE INVERTER SHALL BE PROVIDED WITH A STATIC SEMI-CONDUCTOR TYPE VOLTAGE AND FREQUENCY REGULATOR DESIGNED AND CONSTRUCTED SO THAT IT MAY BE USED IN MS3371, MS16062-1, MS17404-1 AND -2, MS17407-1 AND -2, MS21983-1, AND MS23702-1 INVERTERS OF THE SAME MANUFACTURER.

REQUIREMENTS: - MS17406-1A AND -2A ONLY

13. THE INVERTER SHALL BE PROVIDED WITH AN OVERVOLTAGE PROTECTION CIRCUIT WHICH SHALL REMOVE INVERTER OUTPUT VOLTAGE WHEN THE VOLTAGE IS BETWEEN 122 AND 136 VOLTS. OVERVOLTAGE TRANSIENTS SHALL NOT EXCEED THE LIMITS OF MIL-STD-704 FOR CATEGORY B EQUIPMENT, ABNORMAL ELECTRIC SYSTEM OPERATION.
14. THE INVERTER SHALL BE PROVIDED WITH A METER, TIME TOTALIZER CONFORMING TO MS17322-10. THE METER SHALL BE LOCATED ON THE LEFT SIDE OF THE CONTROL BOX FACING THE CONNECTOR END.

REQUIREMENTS: - MS17406-3 AND -4

15. THIS INVERTER SHALL BE A STATIC, SEMI-CONDUCTOR DEVICE EMPLOYING NO MOVING PARTS EXCEPT THAT A COOLING FAN SHALL BE ALLOWABLE.
16. THE MS17406-3 INVERTER MAY BE LOADED THREE PHASE ONLY. THE INVERTER SHALL OPERATE EITHER IN THE WYE OR DELTA MODE WHEN EXTERNAL CONNECTIONS ARE MADE AS SHOWN IN THE CONNECTION DIAGRAM.
17. TWO PLACARDED PIN JACKS SHALL BE PROVIDED ON THE CONNECTOR END ABOVE THE HORIZONTAL CENTERLINE OF THE INVERTER BETWEEN WHICH THE VOLTAGE A-D MAY BE MEASURED FOR THE MS17406-3 INVERTER OR A-B FOR THE MS17406-4 INVERTER.
18. FOR THREE PHASE OPERATION, THE PHASE DISPLACEMENT BETWEEN ADJACENT PHASES SHALL BE $120^\circ \pm 4'$ FOR BOTH BALANCED AND UNBALANCED LOAD CONDITIONS AS SPECIFIED IN THE PROCUREMENT SPECIFICATION.
19. THE OUTPUT VOLTAGE DURING STARTING SHALL BE AT ITS STEADY STATE CONDITION WITHIN TWO SECONDS AFTER APPLICATION OF INPUT VOLTAGE AND SHALL REMAIN AT THAT CONDITION THEREAFTER. DURING THE TWO SECOND STARTING PERIOD, THE MAXIMUM PEAK OUTPUT VOLTAGE SHALL NOT EXCEED 198 VOLTS. THE INVERTER SHALL CONFORM TO THIS REQUIREMENT FROM NO LOAD TO FULL LOAD, FROM 26 VOLTS TO 29 VOLTS INPUT AND ALL RATED TEMPERATURE OR ALTITUDE CONDITIONS.
20. WHEN COMPUTING EFFICIENCY, MEAN (AVERAGE) VALUES OF INPUT VOLTAGE AND CURRENT SHALL BE USED AND ROOT MEAN SQUARE (RMS) VALUES OF OUTPUT VOLTAGE AND CURRENT OR AVERAGE OUTPUT POWER SHALL BE USED.
21. THE TOTAL HARMONIC AND EXTRANEOUS FREQUENCY CONTENT OF THE WAVEFORM SHALL NOT EXCEED 5 PERCENT OF THE FUNDAMENTAL, NOR SHALL ANY INDIVIDUAL HARMONIC OR EXTRANEOUS FREQUENCY EXCEED 3 PERCENT OF THE FUNDAMENTAL UNDER THE CONDITIONS OF THE PARAGRAPH ENTITLED "WAVEFORM" IN MIL-I-7032.
22. THE MINIMUM USEABLE LIFE SHALL BE 2500 HOURS UNDER THE CONDITIONS OF THE LIFE TEST SPECIFIED IN MIL-I-7032. AS A DESIGN OBJECTIVE, THE UNIT SHALL HAVE A USEABLE LIFE OF AT LEAST 10,000 HOURS. FAILURE OF A COOLING FAN, IF USED, SHALL CONSTITUTE INVERTER FAILURE, ALTHOUGH THE INVERTER MAY OPERATE NORMALLY UNDER MOST CONDITIONS WITHOUT ITS USE.
23. THE INVERTER SHALL NOT BE DAMAGED WHEN THE INPUT VOLTAGE IS UNIFORMLY VARIED FROM ZERO TO 32 VOLTS AND BACK TO ZERO OVER A FIVE MINUTE PERIOD UNDER ANY RATED LOAD CONDITION.
24. AFTER DELIVERING SPECIFIED OVERLOAD OR SHORT CIRCUIT CURRENT FOR AT LEAST 5 SECONDS PER MIL-I-7032, THE INVERTER SHALL HAVE AUTOMATIC ELECTRONIC OVERLOAD AND SHORT CIRCUIT PROTECTION. THE INVERTER SHALL THEN OPERATE FOR AT LEAST 15 MINUTES, WITHOUT DAMAGE, INTO THIS OVERLOAD OR SHORT CIRCUIT. OUTPUT VOLTAGE AND/OR CURRENT MAY DROP TO ANY LEVEL AFTER THE FIRST 5 SECONDS. NORMAL OUTPUT VOLTAGE SHALL OCCUR WITHIN 2 SECONDS AFTER REMOVAL OF THE OVERLOAD OR SHORT CIRCUIT.

APPROVED 10 JULY 1962 REVISED (C) FOR CHANGES SEE SHEET 1

P.A. NAVY - AS Other Code	TITLE	MILITARY STANDARD MS17406
USAF-82 ARMY-ME	INVERTER, 750 VA 3/1 PHASE, 750 VA 3 PHASE, & 1000 VA 1 PHASE CLASS B, MULTI-PURPOSE	
PROCUREMENT SPECIFICATION MIL-I-7032	SUPERSEDES MS25094	SHEET 5 OF 6

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PLATE NO. 2280

FED. SUP CLASS
6125 & 6130REQUIREMENTS: - MS17406-3 AND -4 (CONT'D)

25. DURING THE RECOVERY TIME TEST OF MIL-I-7032, THE MAXIMUM PEAK OUTPUT VOLTAGE SHALL NOT EXCEED 198 VOLTS.
26. THE INVERTER SHALL NOT INFLUENCE THE DC POWER SUPPLY SYSTEM IN EXCESS OF THE LIMITS SPECIFIED IN THE PARAGRAPH ENTITLED "INFLUENCE ON ELECTRIC SYSTEM" IN MIL-STD-704. THE DC POWER SUPPLY SYSTEM SHALL BE A STANDARD AIRCRAFT SYSTEM RATED 100 AMPERES OR MORE. PEAK TO MEAN INPUT RIPPLE CURRENTS DRAWN BY THE INVERTER SHALL NOT EXCEED 10 AMPERES WHEN THE INVERTER IS OPERATED FROM A ZERO IMPEDANCE SOURCE. THIS REQUIREMENT SHALL APPLY UNDER OPERATING CONDITIONS 1. THROUGH 5. OF THIS DRAWING.
27. THE INVERTER SHALL MEET ALL REQUIREMENTS OF THIS DRAWING AND THE PROCUREMENT SPECIFICATION WHEN SUPPLIED WITH POWER CONFORMING TO THE REQUIREMENTS OF MIL-STD-704. THE INVERTER SHALL NOT BE DAMAGED BY INPUT SURGE AND SPIKE VOLTAGES AS DEFINED THEREIN AND SHALL MEET ALL REQUIREMENTS WITH INPUT RIPPLE VOLTAGE CONFORMING TO MIL-STD-704.
28. THE INVERTER SHALL NOT HAVE AN EXTERNAL VOLTAGE ADJUSTMENT.
29. THE MS17406-3 INVERTER SHALL MEET ALL THREE PHASE REQUIREMENTS OF THIS DRAWING AND THE PROCUREMENT SPECIFICATION WHEN CONNECTED IN DELTA AS WELL AS WYE CONFIGURATION.
30. BOTH NARROWBAND AND BROADBAND CONDUCTED AND RADIATED ELECTROMAGNETIC INTERFERENCE SHALL BE WITHIN THE LIMITS OF MIL-STD-461 WHEN TESTED IN ACCORDANCE WITH MIL-STD-462, METHODS C003 AND R020. THE LOWER TEST FREQUENCY SHALL BE LIMITED TO 150 KHz FOR BOTH TESTS. THE INVERTER SHALL MEET THE REQUIREMENTS UNDER ANY INPUT VOLTAGE AND LOAD CONDITION SPECIFIED BY THIS DRAWING. DURING THIS TEST, THE INVERTER LOAD POWER FACTOR SHALL BE ADJUSTED SUCH THAT THE COMBINED POWER FACTOR OF THE LOAD AND ALL AUXILIARY TEST EQUIPMENT REQUIRED SHALL PRESENT A TOTAL LOAD POWER FACTOR TO THE INVERTER WITHIN THE RANGE SPECIFIED BY THIS DRAWING.

REQUIREMENTS: - MS17406-5 ONLY

31. THE MS17406-5 INVERTER SHALL MEET ALL REQUIREMENTS OF THE MS17406-4 INVERTER IN ADDITION TO MS17406-5 LOW INPUT VOLTAGE OPERATING REQUIREMENTS.
32. TOTAL HARMONIC AND EXTRANEOUS CONTENT SHALL NOT EXCEED 8% OF THE FUNDAMENTAL UNDER ANY RATED OPERATING CONDITION WITH INPUT VOLTAGE BETWEEN 9 AND 18 VOLTS.
33. INVERTER EFFICIENCY SHALL BE 50% MINIMUM AT INPUT VOLTAGES BETWEEN 9 AND 18 VOLTS, SEA LEVEL ALTITUDE, 25±15°C AMBIENT TEMPERATURE, FULL LOAD, AND UNITY POWER FACTOR.
34. NO OUTPUT VOLTAGE AND FREQUENCY TRANSIENTS SHALL BE GENERATED WHEN INPUT VOLTAGE IS VARIED BETWEEN 9 AND 29 VOLTS.
35. ALL TESTS OF MIL-I-7032 APPLY BETWEEN 9 AND 18 VOLTS INPUT EXCEPT THE FOLLOWING: ACCELERATION, ENDURANCE, PERFORMANCE, LIFE, AND THE AMBIENT TEMPERATURE, ALTITUDE, AND WARMUP PORTIONS OF THE FACTORS AFFECTING VOLTAGE AND FREQUENCY REGULATION TEST.
36. THE INVERTER SHALL BE SUBJECT TO 1250 CONSECUTIVE CYCLES OF OPERATION CONSISTING OF ONE MINUTE AT 9 VOLTS INPUT AND FULL LOAD AND 4 MINUTES AT 28 VOLTS INPUT AND 1000 VA LOAD. THIS TEST SHALL BE CONDUCTED AT ROOM TEMPERATURE WITH UNITY POWER FACTOR LOADS. THE INVERTER SHALL MEET ALL SPECIFIED REQUIREMENTS OF THIS DRAWING AND THE PROCUREMENT SPECIFICATION DURING AND AFTER THIS TEST.

FOR DESIGN PLANTING PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS. REFERENCES HEREIN REFERENCED HEREIN SHALL BE OF THE ISSUE IN EFFECT ON DATE OF DRAWING AND NOT LATER.

P.A. NAVY - AS Other Comd	TITLE INVERTER, 750 VA 3/1 PHASE, 750 VA 2 PHASE, & 1000 VA 1 PHASE CLASS B, MULTI-PURPOSE	MILITARY STANDARD	
		MS17406	
USAF-82 ARMY-ME		SHEET	OF
PROCUREMENT SPECIFICATION MIL-I-7032	SUPSEDES MS25094	6	6

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PLATE NO. 2309

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APPROVED 13 JUL 1963 REVISED 6 JUL 1963 CHANGE 1 TYPED 6

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Naval Air Engineering Center
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