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		FED. SUP CLASS. 6125																																								
PHASE ROTATION A, B, C		CONNECTIONS EXTERNAL TO THE INVERTER NECESSARY FOR WYE (115/200 VOLT) AND DELTA (115 VOLT) CONNECTIONS FOR 1Ø CONNECTION, SEE (a)																																								
<table border="1"> <tr> <th>MS PART NO.</th> <th>COOLING AIRFLOW</th> </tr> <tr> <td>MS25097-1</td> <td>DUPLEX</td> </tr> <tr> <td>MS25097-2</td> <td>SIMPLEX</td> </tr> </table>	MS PART NO.	COOLING AIRFLOW	MS25097-1	DUPLEX	MS25097-2	SIMPLEX	<table border="1"> <tr> <th>INPUT: VOLTS, DC</th> <th>3Ø</th> <th>1Ø</th> </tr> <tr> <td>OUTPUT: VOLTS, AC</td> <td>28</td> <td>28</td> </tr> <tr> <td>FREQUENCY, CPS</td> <td>115/200</td> <td>115</td> </tr> <tr> <td>VA TO 50,000 FEET ALTITUDE</td> <td>400</td> <td>400</td> </tr> <tr> <td>VA TO 65,000 FEET ALTITUDE</td> <td>2500</td> <td>2500</td> </tr> <tr> <td>PF MIN LAG, PERCENT</td> <td>1250</td> <td>1250</td> </tr> <tr> <td>PF MIN LEAD, PERCENT</td> <td>90</td> <td>90</td> </tr> <tr> <td>MIN OUTPUT VOLTAGE AT 200 PERCENT RATED CURRENT</td> <td>95</td> <td>95</td> </tr> <tr> <td>MIN EFFICIENCY PERCENT AT RATED LOAD, SEA LEVEL, AND 25° ±15°C</td> <td>50/85</td> <td>50</td> </tr> <tr> <td>WEIGHT, POUNDS, MAX</td> <td>50</td> <td>45</td> </tr> <tr> <td></td> <td>62</td> <td>62</td> </tr> </table>			INPUT: VOLTS, DC	3Ø	1Ø	OUTPUT: VOLTS, AC	28	28	FREQUENCY, CPS	115/200	115	VA TO 50,000 FEET ALTITUDE	400	400	VA TO 65,000 FEET ALTITUDE	2500	2500	PF MIN LAG, PERCENT	1250	1250	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		62	62
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FOR ANY COMBINATION OF CONDITIONS LISTED BELOW, THE OUTPUT VOLTAGE AND FREQUENCY SHALL REMAIN WITHIN THE INDICATED LIMITS.																																										
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INPUT VOLTAGE VARIED BETWEEN 26 AND 29 VOLTS LOAD VARIED FROM 0 TO FULL LOAD 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.		<table border="1"> <tr> <th>VOLTAGE</th> <th>FREQUENCY, CPS</th> </tr> <tr> <td>LOW 110/192</td> <td>LOW 390</td> </tr> <tr> <td>HIGH 120/208</td> <td>HIGH 410</td> </tr> </table>		VOLTAGE	FREQUENCY, CPS	LOW 110/192	LOW 390	HIGH 120/208	HIGH 410																																	
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(a) THIS INVERTER DESIGN SHALL BE SUCH THAT IT MAY BE LOADED EITHER 3Ø OR 1Ø 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(T ₁) AND B(T ₂). WHEN USED 3Ø, 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 UNIT BETWEEN WHICH THE VOLTAGE BETWEEN A(T ₁) AND G(T ₄) CAN BE MEASURED. THESE 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 ELICTRICALLY 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.																																										
(D) CANCELED AFTER 10 FEBRUARY 1965. USE MS17404. INTERCHANGEABILITY RELATIONSHIP: MS17404 PARTS CANNOT ALWAYS REPLACE THE CANCELED PARTS IDENTIFIED BY THE SAME DASH NUMBERS. THE CANCELED MS25097 PARTS CANNOT REPLACE THE MS17404 PARTS.																																										
CUSTODIANS Navy - WP USAF - 82		OTHER INT. A - N - AF -																																								
(D)		MILITARY STANDARD																																								
INVERTER, 2,500 VA, 3/1 PHASE, CLASS B		MS25097 (ASG)																																								
PROCUREMENT SPECIFICATION MIL-I-7032		SUPERSEDES:																																								
SHEET 1		OF 1																																								