

FED. SUP CLASS.

6125

<u>Conversion Unit</u>		<u>Control Unit</u>
Volume	15 cu. ft. max	0.5 cu. ft. max.
Weight	500 lbs. max.	10 lbs. max.
Efficiency	55% Min.	
<u>Input</u>		<u>Output</u>
Voltage	220 or 440 volts a-c	Voltage 30 volts d-c (Adjustable
Frequency	60 cps	between the limits of
Phase	3	15 and 32 volts)
		Current 300 amps.
<u>Conditions</u>		<u>Voltage Limits</u>
Input voltage varies between 200 and 240 volts or 400 to 480		Low 29.25 v
Ambient temperature varies between - 30°C and + 65°C		High 30.75 v
Current output varied between 0 and 300 amps.		
Altitude varied between sea level and 5000 ft.		

NOTES:

- The weight and volume shown on this drawing shall include the weight and volume of all auxiliary apparatus necessary to make this product conform to Specification MIL-C-19454(Aer) with the exceptions noted below. The device shall be essentially rectangular in shape with major dimensions held to a minimum.
- This unit shall conform to Specification MIL-C-19454(Aer) with the following exceptions:
 - Provisions shall be made for parallel operation of the output from basic systems of two or more of these units by means of an equalizing connection having the same parameters as required by Specifications MIL-R-6809 and MIL-C-6162.
 - Radio interference (conducted and radiated) produced by the operation of this unit at no load and full load shall not exceed the limits of Specification MIL-I-6181.
 - The humidity cycle provided for by Specification MIL-C-19454(Aer), paragraph 4.5.13, shall be repeated 10 times instead of 5 times as indicated.
 - The salt spray test provided for by Specification MIL-C-19454(Aer), paragraph 4.5.14, shall be lengthened to 50 hours.
 - Fused disconnect switches or breakers for input and output power are not required however protective devices shall be provided to prevent damage to the unit. If fuses are used two spare sets (or links) and appropriate stowage shall be provided
 - The unit must operate throughout the temperature range of -30°C to + 65°C and shall not be damaged by exposure to temperatures of -55°C to + 71°C.
 - Ammeters and voltmeters shall be in accordance with Specification MIL-M-64.
 - Ventilation openings shall be $\frac{1}{2}$ inch maximum.
 - Electrolytic capacitors shall withstand a voltage $1\frac{1}{2}$ times the maximum recurrent peak voltage encountered during normal operation.
 - Ripple voltage shall be 1.5 volts maximum.
 - Maximum steady state voltage shall be in accordance with Specification MIL-E-5272 and the maximum transient voltage shall be 45 volts.

Ⓐ INACTIVE FOR DESIGN AFTER 17 June 1971 NO
SUPERSEDING STANDARD.

THIS MILITARY STANDARD IS APPROVED BY
Department of the Navy and is mandatory for use by
that activity. All other military activities are required
to employ this standard where suitable.

P.A. Navy - AS	OTHER INT. A - N - AF -	MILITARY STANDARD CONVERTER - CONSTANT VOLTAGE 300 AMP, 30 VOLTS DC (FOR GROUND USE)	MS25303(AS)
Procurement Specification MIL-C-19454(Aer)	SUPERSEDES: 52A3A702	SHEET 1 OF 1	

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APPROVED 27 Jan 1958 REVISED Ⓐ 17 June 1971