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## AAI-OBVP-500 Inverter Specification

The AAI series Inverter delivers 15000 VA of clean, regulated AC power in a ruggedly built chassis designed to meet the rigors of military vehicle power. The inverter is designed to meet military standards and multiple units can be paralleled for additional power.

### INPUT

Voltage: 24 VDC +20%, - 30%  
Incorporates volt surge protection IAW MIL-STD-1275

### OUTPUT

Power: 15000 VA @ 0.9 lag to 0.9 lead  
Voltage: 120/240 VAC, 1 Phase, Isolated and Floating  
(Other voltages available)  
Frequency: 50/60 Hz switch selectable  
Current: 120VAC 58.3 amps in combination with  
240VAC 29.2 amps  
Current Crest Factor: 3:1  
Power Factor: 0.9 lag to 0.9 lead  
Distortion: 3.0% THD typical  
Load Regulation: +/- 1.0% No Load to Full Load.  
Line Regulation: 0.1% for 10% Line Change  
Efficiency: 85% typical.

### PROTECTIVE CIRCUITS:

Input Protection: Circuit breaker.  
Constant Current Mode: Overload automatically causes voltage fold back to provide maximum current without distorting output waveform.  
Short Circuit Protection: Short Circuit electronically latched output open to protect load. Power restored by recycling circuit breaker.  
Thermal Protection: Internal temperature sensor prevents heat damage.

### MECHANICAL SPECIFICATIONS: Ruggedly built bulkhead mount enclosure.

Dimensions: Approximately 17"H x 33"W x 10"D.  
Weight: Approximately 63 lbs.  
Cooling: Internal fans  
Operating Temperature: 0 to 50° C.  
Storage Temperature: -20 to 70° C  
Humidity: 0-95% RH non-condensing.  
Input Connections: 24VDC quick connect  
Output Connections: MIL connectors, twist lock, Hubbell, etc.

## **SPECIAL FEATURES:**

- **Switch selectable frequencies of 50 Hz, 60 Hz.**
- **Multiple units can be wired in Parallel for higher power requirements.**
- **Designed to meet the rigors of vehicle power**
- **Designed to meet the following MIL standard's**
  - Shock: MIL-S-901; MIL-STD-810**
  - Vibration: MIL-STD-167; MIL-STD-810; RTCA/DO-160**
  - Humidity: MIL-STD-810**
  - EMI/EMC: MIL-STD-461C/D; RE102 with proper shielding.**

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AAI-OBVP-7500