



AAI-EVP-500 Alternator Specification

The American Armature EVP series Alternator delivers 14000 VA of clean, regulated DC power in a ruggedly built chassis designed to meet the rigors of military vehicle power. The alternator is designed to meet military standards and multiple units can be paralleled for additional power.

OUTPUT

Power:	14000 VA
Rated Voltage:	24 VDC nominal, 28 VDC charging
Rotation:	CW or CCW
Current:	500 Amps
Charge voltage setpoint:	28
Ripple Current:	34
Turn on speed:	922 rotor rpm
Stator Voltage:	26.8
Field Voltage:	24 VDC
Efficiency:	85% typical.

MECHANICAL SPECIFICATIONS:

Diameter:	6.5".
Mount:	J130 or J180
Weight:	43 lbs.
Cooling:	Internal fans
Operating Temperature:	-40 to +140° C.
Storage Temperature:	-20 to 70° C
Humidity:	0-99% RH non-condensing.
Output Connections:	½" stud post or

SPECIAL FEATURES:

- **Super light weight.**
 - **Brushless.**
 - **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-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%, - 10%
Incorporates volt surge protection IAW MIL-STD-1275

OUTPUT

Power: 15000 VA
Voltage: 120/208 VAC, 3 Phase, Isolated and Floating
(Other voltages available)
Frequency: 50, 60 & 400 Hz switch selectable
Current: 21 Amps/phase
Current Crest Factor: 3:1
Power Factor: 100% of rated output into any power factor load.
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 10.5"H x 17"W x 22"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 and 400 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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