



Military Power Inverters (MINV)

Military Grade Power Inverter (MINV)

SynQor's [Military Inverter](#) units are designed for the extreme environmental and demanding electrical conditions of Military/ Aerospace applications. SynQor's MINV "Field-Rugged" family of rack-mount products incorporates field proven high efficiency designs and rugged packaging technologies. This MINV will accept a DC input voltage while delivering a well-conditioned AC output to the load. It is designed and manufactured in SynQor's USA facilities to comply with a wide range of military standards. Options include a selection of output voltage amplitudes, frequencies, and an electronic breaker on the AC output to permit fault-tolerant parallel operation for higher power and/or N+M redundant systems.

MINV Product Features

- Sealed, weather-proof, shock-proof construction
- 4000 W (5000 VA) output power
- Full power operation: -40°C to +55°C
- DC Input
- Pure sinusoidal AC output voltage (115 VAC, 60 Hz)
- Handles 0.0 - 1.0 power factor loads and non-linear loads
- Up to 32 units can be combined for higher power, voltage or a 3-phase AC output
- Up to 32 units can be combined to form a higher power fault-tolerant, glitch-free system, perhaps with N+M redundancy, by ordering with the "AC Output Electronic Breaker" option and the appropriate configuration cable
- Battle Mode for over-temperature events
- User I/O and Configuration signal ports
- 1U high rack-mount unit (17.00" x 22.43")
- Low weight: 30 lbs.

Specification Compliance

- MINV-4000 units are designed to meet:
 - MIL-STD-1399-300 - Interface Shipboard
 - MIL-STD-810 - Environmental Engineering
 - MIL-STD-461 - Electromagnetic Interference
 - MIL-STD-704 - Aircraft Electrical Power
 - MIL-STD-1275 - Vehicle Electrical Power

Options

- 115 Vrms or 230 Vrms AC output
- 50 Hz, 60 Hz, or 400 Hz AC output
- Shipboard version with floating neutral wire

