



RSW400-MIL SINE WAVE INVERTER

This rugged, convection cooled DC/AC inverter uses field proven, micro-processor controlled high frequency PWM technology to generate 400W of output power with pure sine wave output voltage.

It is a mature design with a track record in numerous applications. The use of high frequency conversion enables a compact construction, low weight and high efficiency.

The input and output are filtered for low noise to meet MIL STD 461F.

Cooling is via baseplate to a heatsinking surface and by natural convection no fan, low noise, no internal contamination.

The Inverter can be mounted in any directions.

The use of highest quality components results in high MTBF and outstanding reliability.

The unit is manufactured at our plant under strict quality control.

APPLICATIONS

- Military Applications (COTS)
- Marine & other demanding environments
- All mobile MIL applications as tanks and trucks
- Shelters and other building equipment
- Ruggedized to meet parts of STANAG4370 and MIL STD 1275E Wheeled & Tracked Profiles

FEATURES

- 400W of pure sine wave output power
- MIL STD 461F
- Ruggedized
- Waterproof IP64
- Environmentally Tolerant
- Vibration resistant
- Operating Temperature -40 to +60°C
- Very low input ripple current
- Full electronic protection
- Compact size, light weight
- Flexible design (connectors, shape)
- Field-proven design topology



Pure Sinewave



Convection cooling (no fan)



High frequency technology



Light weight, compact size



Full electronic protection



Extended temperature range



Waterproof IP64



Stand-by mode (default disabled)



Optional Remote control

SPECIFICATIONS

Input Voltage	28VDC (19-38VDC) Under-voltage lockout default @ 19VDC
Input Transients	Under-voltage protection hysteresis 3-5V (0.5Vdc steps) selectable when ordering MIL-STD-1275E (100V 50ms) MIL-STD-704A, MIL-STD-704D (80V 100ms)
Maximum Input Current	24A
No load input current (standby state)	30mA
Input Protection	Against overcurrent by internal fuse Under and over voltage lockout
Isolation	Input/Output 3000VAC, Input/Earth 500VAC, Output/Earth 1500VAC
Standards	EN60950-1
EMC	Emission according to norm/s MIL STD 461F CE102, RE102
Output Voltage	230VAC / 50Hz or 60 Hz / 1.74A continuous
Wave Form	Sinusoidal
Total Harmonic Distortion	< 2%
Line Regulation	0.2%
Load Regulation	3%
Total Harmonic Distortion	2%
Ripple	< 20 Vpp
Overload Protection	> 2A
Total Output power	400W
Output Protection	Against overload and shortcircuit
Over-temperature protection	Shutdown at baseplate temperature of +105°C (±5°C) Automatic recovery at baseplate temperature lower than +95°C (±5°C)
Efficiency	90% at load 100%, 87% at load 50%, 81% at load 25%, 76% at load 10%
Storage Temperature	-40...100°C
Operating Temperature	-40...60°C (starting up included)
Cooling	Convection and conduction
Shock/Vibration	STANAG4370, AECTP401A-1 20g, saw tooth 11ms; 3 shocks for every directions STANAG4370, AECTP401A Ground Vehicles
Protection	IP 64
MTBF	90,000 hours at 40°C
Indicators	Optional connector for LED indicator: Output voltage OK, Input voltage OK, Output Current OK
Control	Optional connector for remote control On/Off
Package / Dimensions	470 x 160 x 95 mm (depending on connectors required)
Weight	5.4 kg
Connections ^{#1}	Input VG95234 B1-18-11 PN Output D38999/20WC4SN ^{#1} green cadmium coated connectors not RoHS conform RoHS conform connectors available on request
RoHS Compliance	Fully compliant (depending on connectors, see ^{#1})
Warranty	1 year

