

# RSW400-MIL Series COTS Sinewave Inverter



Pure sinewave



Convection cooling (no fan)



High frequency technology



Light weight, compact size



Full electronic protection



Extended temperature range



Waterproof IP66



Stand-by mode (default disabled)



Optional Remote control

## Applications

- Military Applications (COTS)
- Electric Utilities and Substations
- Telecom Power Plants
- Manufacturing Locations
- Steel Mills
- Industrial Controls
- Marine / Automotive / RV
- OEM Applications
- Solar / Alternative Power Systems
- Fuel Cells

## DC/AC Inverters

### RSW400 MIL Series

#### Description

This rugged, convection cooled DC/AC inverter uses field proven, microprocessor 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.

#### Features

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

# Specifications ( Specifications Subject to Change Without Notice)

<b>Input Voltage</b>	28VDC (19-38VDC) Under-voltage lockout default @ 19VDC 19...21VDC (0.5Vdc steps) selectable when ordering
<b>Input Transients</b>	MIL-STD-1275E (100V 50ms) MIL-STD-704A, MIL-STD-704D (80V 100ms)
<b>Maximum Input Current</b>	24A
<b>No load input current (standby state)</b>	30mA
<b>Input Protection</b>	Against overcurrent by internal fuse Under and over voltage lockout
<b>Isolation</b>	Input/Output 3000VAC, Input/Earth 500VAC, Output/Earth 1500VAC
<b>Standards</b>	EN60950-1
<b>EMC</b>	Emission according to norm/s MIL STD 461F CE102, RE102
<b>Output Voltage</b>	230VAC / 50Hz or 60 Hz / 1.74A continuous
<b>Wave Form</b>	Sinusoidal
<b>Total Harmonic Distortion</b>	< 2%
<b>Line Regulation</b>	0.2%
<b>Load Regulation</b>	3%
<b>Total Harmonic Distortion</b>	2%
<b>Ripple</b>	< 20 Vpp
<b>Overload Protection</b>	> 2A
<b>Total Output power</b>	400W
<b>Output Protection</b>	Against overload and shortcircuit
<b>Over-temperature protection</b>	Shutdown at baseplate temperature of +105°C (±5°C) Automatic recovery at baseplate temperature lower than +95°C (±5°C)
<b>Efficiency</b>	90% at load 100%, 87% at load 50%, 81% at load 25%, 76% at load 10%
<b>Storage Temperature</b>	-40...100°C
<b>Operating Temperature</b>	-40...60°C (starting up included)
<b>Cooling</b>	Convection and conduction
<b>Shock/Vibration</b>	STANAG4370, AECTP401A-1 20g, saw tooth 11ms; 3 shocks for every directions STANAG4370, AECTP401A Ground Vehicles
<b>Humidity</b>	5 - 95% non-condensing
<b>MTBF</b>	90,000 hours at 40°C
<b>Indicators</b>	Optional connector for LED indicator: Output voltage OK, Input voltage OK, Output Current OK
<b>Control</b>	Optional connector for remote control On/Off
<b>Package / Dimensions</b>	470 x 160 x 95 mm (depending on connectors required)
<b>Weight</b>	5.4 kg
<b>Connections</b>	Input VG95234 B1-18-11 PN Output D38999/20WC4SN
<b>RoHS Compliance</b>	RoHS according to directive 2002/95/EC
<b>Warranty</b>	1 year

Available from:



## RIPEnergy®

The power conversion company

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