

RSW1200-MIL Series 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



Optional Remote control



Optional USB A 5VDC/2A output

Applications

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

DC/AC Inverters

RSW1200 MIL Series

Description

This rugged, convection cooled DC/AC inverter uses field proven, microprocessor controlled high frequency PWM technology to generate 1200W 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

- 1200W 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
- Optional USB A 5VDC/2A output
- Field-proven design topology

Specifications (Specifications Subject to Change Without Notice)

Input Voltage	28Vdc according to MIL-STD-1275D including: 5.1.2.2 Cranking surges. 5.1.2.1 Initial engagement surge (IES). DC input voltage range 19...33Vdc Under-voltage lockout: 19...23Vdc with input current dependence No load 23VDC, 1200W 19VDC (programmable by software)
Maximum Input Current	60A
No load input current (standby state)	< 15mA
Input Protection	against overcurrent by internal fuse under voltage lockout over voltage lockout
Isolation	Input/Output 3000Vac Input/Earth 1000Vac Output/Earth 1500Vac
Safety	EN60950-1 EMC-Directive 2014/30/EU LowVoltageDirective (LVD)2014/35/EU
EMC	Emission according to norm/s MIL STD 461F Immunity according to norm/s MIL STD 461F
Output Voltage	230VAC / 5.22A continuous 50Hz or 60 Hz sel. by DIP Switch or programmable by software
Wave Form	Sinusoidal
Total Harmonic Distortion	< 2%
Line Regulation	0.2%
Load Regulation	3%
Ripple	< 20VPP
Overload Protection	> 6A (130% of nominal load 5 seconds)
Total Output power	1200W
Power Factor	0.4 – 1 (inductive and capacitive)
Output protected	against overloads and shortcircuits
Over-temperature protection	shutdown
Efficiency	92% at load 100%, 90% at load 50%, 87% at load 25%, 80% at load 10%
Storage Temperature	-40...100°C
Operating Temperature	-40...60°C (starting up included)
Cooling	Conduction
Shock/Vibration	IEC60721-3-5 class 5M3, MIL 810F (Shock and Vibration)
Protection	IP66
MTBF	10 years at 40°C
Sleep mode / Saving function	enabled or disabled by DIP Switch
Indicators Optional	LED Green (status ok on, status sleep mode blinking) LED RED (1 Overload, 2 Battery Low voltage, 3 Overtemperature)
Control Optional	3 wire remote control (ON/OFF SLEEP) CAN - BUS
Auxiliary Output (USB A) Optional	5VDC / 2A
Weight	11.2
Package / Dimensions	550 x 206 x 136 mm (depending on connectors required)
Connections	Input VG95234B1-22-22PN Output D38999/20WC4SN
RoHS Compliance	RoHS according to directive 2002/95/EC
Warranty	1 year

Available from:



RIPEnergy®

The power conversion company

RIPEnergy AG
Wägitalstrasse 24
CH-8854 Siebnen
Switzerland

Ph +41-(0)43-818 53 85
www.ripenergy.ch