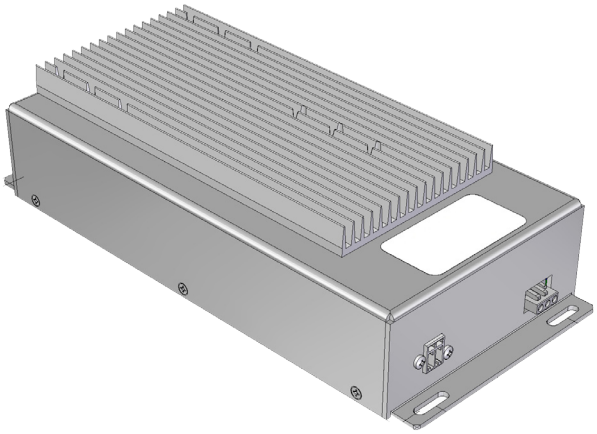
RIPEENERGY
The Power Conversion Company



RSW400 RAILWAY SINEWAVE INVERTER

SERIES RSW400

The RSW400 supplies a 230VAC / 50Hz output voltage from a 36VDC power source, input and output are galvanically isolated.

The shape of the output voltage is pure sinewave - as from the grid.

The RSW400 inverter features maximum average power protection as well as maximum output peak current protection.

This protects the semiconductors even when an output short-circuit occurs.

It also features a disable function for input undervoltage, which protects the batteries from harmful discharges.

Standby mode:
If the load is < 10W the inverter goes to standby state for half a minute. After this period it checks the output power again.
In standby state the inverter consumes an average current < 20mA.

Pure Sinewave

High frequency technology

Light weight, compact size

Full electronic protection

Extended temperature range

Convetion Cooling (no Fan))

Standby mode

APPLICATIONS

- Railway Applications
- Industrial Controls
- Telecom Power Plants
- Marine & other rugged environments
- Electric Utilities and Substations
- Base Station Power

FEATURES

- Sine wave output voltage
- High input-output isolation 3000Vrms
- Designed for rolling applications according to EN50155
- Output protected against overloads and shortcircuits
- Input protected against overcurrents by internal fuse.
- Over-temperature shutdown
- Input under-voltage lockout

SPECIFICATIONS

Input	
Input voltage	36Vdc
Input voltage range	25.2 ... 45V, transients according to EN50155 class S1
No load input current (standby state)	< 20mA
Maximum input current	18A
Efficiency (typical)	90% at load 100%, 87% at load 50%, 81% at load 25%, 76% at load 10%
Output	
Output voltage	230Vac sinusoidal
Frequency	50Hz
Harmonic distortion	<2%
Maximum continuous current (Io)	1.74A
Overload protection	>2A
Line regulation	0.2%
Load regulation	3%
Total Harmonic Distortion (typ/max)	2% / 5%
Output power	400W
Environmental	
Storage temperature	-25 ... 80°C
Operating temperature full load	-25 ... 55°C (EN50155 T1)
Cooling	Natural convection
Relative humidity	5...95%
Vibration	EN61373 Category 1 class B body mounted
Shock	EN61373 Category 1 class B body mounted
MTBF	90.000h at 40°C
Environmental regulations	RoHS according to directive 2002/95/EC

EMC	
Immunity according to	IEC61000-4-3, IEC61000-4-6, IEC61000-4-2, IEC61000-4-4, IEC61000-4-5 / EN50121-3-2
Emissions according to	EN55011 / EN50121-3-2
Safety	
Safety according to	EN60950-1
Dielectric strength: Input / output	3000 Vrms / 50Hz / 1min
Dielectric strength: Output / ground	1500 Vrms / 50Hz / 1min
Dielectric strength: Input / ground	500 Vrms / 50Hz / 1min
Mechanical	
Weight	2400 g
Dimensions	286 x 130 x 68 mm
Connections	Input: Wago X-COM SYTEM item no. 769-662/004-000 Output: Wago MIDI SYSTEM item no. 232-233
Protections	
Input	Against over-currents by internal fuse
Input	Under-voltage lockout
Output	Against overloads and shortcircuits
Against over-temperature	Shutdown

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