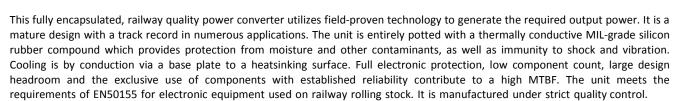
SRWY60 SERIES

DC/DC Converters 60W for railway and industrial converters



- Rugged, field-proven design
- Full encapsulation
- Wide temperature range
- Full electronic protection
- EN50155 input ranges



SPECIFICATIONS

Standard Input Voltages

24Vdc (14.4 – 34V) 36Vdc (22 – 51V) 48Vdc (29 - 67V) 72Vdc (43 – 101V) 96Vdc (58 – 135V) 110Vdc (66 - 154V) Other inputs upon request

Input Protection

Inrush current limiting
Varistor
Reverse polarity protection
Internal safety fuse
Lower voltage than specified
minimum input will not damage
unit

Isolation

1500Vdc input to chassis 3000Vdc input to output 1500Vdc output to chassis

Standards

Designed to meet EN60950-1 and EN50155

Immunity

Meets criteria of EN50155 and EN50121-3-2 according to the following standards: EN 61000-4-2 (ESD) EN61000-4-3 (RF Immunity) EN61000-4-4 (Fast Transients) EN50155 (Surge) EN61000-4-6 (Conducted Imm.) EN50155 (Voltage Variations)

EMI

EN50121-3-2

Switching Frequency

135kHz ±5kHz

Output Voltage

12V or 24V are standard. Output is floating, either terminal can be grounded Other outputs upon request

Redundancy Diode

None

Line/Load Regulation

±1% combined from zero load to full load

Dynamic Response

Max 5% voltage deviation for 10% to 50% load step, with better than 1msec recovery time

Output Ripple/Noise

Less than 1% peak-to-peak or 0.2% RMS of the output voltage (20MHz BW)

Output Overload Protection

Rectangular current limiting with short-circuit protection (hiccup type) Thermal shutdown with automatic recovery in case of insufficient

Output Overvoltage Protection

cooling

Transzorb installed across the output

Efficiency

80 to 90% depending on input/output configuration

Operating Temperature Range

-40 to +70°C cold-plate temperature for full specification

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction cooling via base plate to customer heat-sink or chassis

Environmental Protection

Full encapsulation with thermally conductive silicon potting compound with UL94V-0 flammability rating Meets environmental criteria as requested in MIL-810 C, D

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 – 95% non-condensing Contact factory for higher rating

MTBF

150,000 hours @ 45 °C Demonstrated MTBF is significantly higher

Indicators

None.

Optional 'ON' LED adapter available

Control Input

None

Alarm Output

None

Package/Dimensions (W x H x L)

P100: 58 x 54 x 181 mm (2.3" x 2.1" x 7.1") Includes terminal block and flanges The case has clear alodyne finish according to MIL-C-5541E Class 3 Mounting holes are clear

Weight

0.6kg (1.4 lb)

Connections

5-pole barrier-type terminal block with 3/8" spacing Cover can be provided upon request

RoHS Compliance

Compliant

Terminal Block Pin-Out

Terminal block Fill-Out					
	OUTPUT		GND	INPUT	
	+	-	小	+	-
	1	2	3	4	5