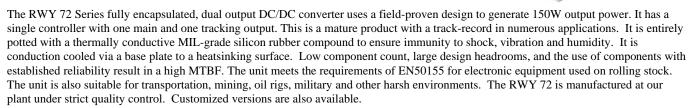
# 150W, Dual-Output Encapsulated DC/DC Converter for Railway & other Heavy Duty Applications

**RWR 72 Series** 

- Rugged, field-proven design
- Dual output
- Complete encapsulation
- Very wide temperature range
- Full electronic protection
- Wide input ranges



# **SPECIFICATIONS**

#### **Standard Input Voltages**

48Vdc (29 - 67V) 72Vdc (43 - 101V) 96Vdc (58 – 135V) 110Vdc (66 - 154V) Other inputs upon request

#### **Input Protection**

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

#### Isolation

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

#### Standards

Meets EN60950 and EN50155

### **Immunity**

Meets criteria of EN50155 and EN50121-3-2 including 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)

EN55022 Class B and EN50121-3-2 conducted and radiated

# **Switching Frequency**

63kHz ±3kHz

#### Output Voltage/Current

Isolated, floating outputs 2 x 12V/6A or 2 x 24V/3A each. are standard. Parallel connection for 12V/12A or connection in series for 24V/6A is

Consult factory for other voltages

#### **Redundancy Diode**

also possible.

None

#### Line/Load Regulation

+/- 1.5% combined from zero load to full load on main output with other output tracking

# **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) Thermal shutdown with automatic recovery in case of insufficient cooling

# **Output Overvoltage Protection**

Second regulator loop completely stable and independent of the main regulator loop for the main output. Transzorb installed across other

#### Efficiency

80 to 90% depending on input/output configuration

# **Operating Temperature Range**

-40 to +70°C cooling surface temperature for full specifications

#### **Temperature Drift**

0.03% per °C over operating temperature range

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

#### **Environmental Protection**

Full encapsulation with thermally conductive silicon potting compound with UL94V-0 flammability rating.

#### Shock/Vibration

Designed to meet IEC 61373 Cat 1 A&B and Cat 2 as a min.

# Humidity

5 – 95% non-condensing

150.000 hours @ 45°C Demonstrated MTBF is significantly higher

### **Indicators**

None

Optional green 'ON' LED

### **Control Input**

None

# **Alarm Output**

None

### Dimensions (W x H x L)

P72: 104 x 58 x 178 mm (4.1" x 2.3" x 7") including terminal block and flanges Mounting holes are clear

# Weight

2.8 lbs. (1.27kg)

#### Connections

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

# **RoHS Compliance**

Fully compliant

# Warranty

Two years subject to application within good engineering practice.

Enhancements to these general specifications and customizing can be accommodated upon request. Specifications subject to change.

Designer and manufacturer of quality ac-dc power supplies and battery chargers, converters, inverters, dc-output UPS systems, complete rack mount systems and DC-input fluorescent lamp inverters since 1982. Custom or standard. Absopulse is a BABT-approved Facility.



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