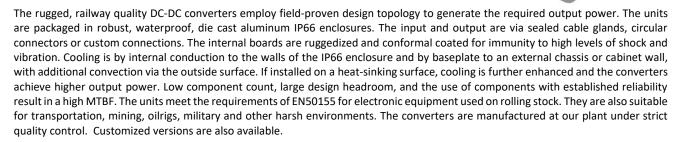
200W, IP66-Rated, Railway Quality DC-DC Converter RWY 200-D2 (IP66) Series

- Packaged in waterproof IP66 enclosure
- Internal module ruggedized and conformal coated
- EN50155 input ranges
- For train and mobile applications
- Rugged, field-proven design
- Full electronic protection



SPECIFICATIONS

Standard Input Voltages

24Vdc (14.4 – 34V) or

36Vdc (22 - 51V) or

48Vdc (28 - 67V) or

72Vdc (43 – 101V) or

96Vdc (58 – 135V) or 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

Meets EN60950-1 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)

EMI

EN50121-3-2

Switching Frequency

80kHz ±5kHz

Output Voltage/Current

12V, 24V, 48V or 110Vdc 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 on each output

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 cooling

Output Overvoltage Protection

Second regulator loop completely stable and independent of main regulator loop

Output Overvoltage Protection

Second regulator loop completely stable and independent of main regulator loop

Efficiency

80 to 90% depending on input/output configuration

Operating Temperature Range

-25°C to 55°C for full specification Extended temperature ranges available on request

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction to customer heat-sink or chassis and by additional natural convection via the surface of the IP66 enclosure

Environmental Protection

IP66 enclosure Internal module: ruggedized Potting of the internal module is also available

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTBF

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

Indicators

None

Control Input

None

Alarm Output

None

Package/Dimensions (W x H x D)

Overall dimensions incl. mounting flanges/baseplate):
D2: 150 x 93.2 x 318 mm
5.9" x 3.67" x 12.5"
Dimensions of enclosure body (excluding connectors):
150 x 90 x 270 x mm
5.9" x 3.54" x 10.6"

Weight

Approx: 3.6 kg; 8 lb

Connections

Internal barrier-type terminal block accessible via sealed cable glands. Optional connectors instead of cable glands

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice.

ABSOPULSE power supplies are designed and built to customer requirements. The specifications on this data sheet are generic guidelines only and are subject to change

OEM of industrial and railway quality DC-DC converters, AC-DC power supplies and battery chargers, DC-AC sine-wave inverters, phase and frequency converters, DC-output

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