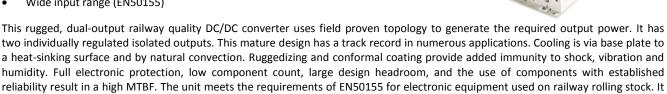
250W, Rugged, Dual-output Railway Quality DC/DC Converter **BAP 265R-F3 Series**

- Rugged, field-proven design
- For train and mobile applications
- Two individually regulated outputs
- Conduction/convection cooled
- Full electronic protection
- Wide input range (EN50155)



SPECIFICATIONS

Input Voltage

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 1000Vdc between outputs

Standards

Designed to meet EN60950-1 and EN50155

Immunity

Meets criteria as requested in EN50155 and EN50121-3-2 according to: EN61000-4-2 (ESD) EN61000-4-3 (RF Immunity) EN61000-4-4 (Fast Transient) EN50155 (Surge) EN61000-4-6 (Conducted immunity) EN50155 (Voltage variation)

EMI

is manufactured at our plant under strict quality control.

EN50121-3-2

Switching Frequency

55kHz ±3kHz

Output Voltage

Typical configuration: V1: 24Vdc ±0.3V/10A V2: 12Vdc ±0.2V/3A Consult factory for required output combination Derating may be required depending on input voltage Both outputs are individually regulated, floating and isolated from each other. Either terminal can be grounded

Redundancy diode

None

Available as option

Line/Load Regulation

±1% combined from zero load to full load for both outputs.

Dynamic Response

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

Output Ripple/Noise

Better than 1% of output voltage peak to peak or 0.2% RMS of the output voltage (20MHZ BW)

Overload Protection

Rectangular current limiting with short-circuit protection. Thermal shutdown in case of insufficient cooling (self resetting)

Output Overvoltage Protection

Double regulator loop on V1 Transzorb installed across V2 output

Efficiency

Typically 80% at full load depending on input/output configuration

Operating Temperature

-25 to +55°C cold-plate temperature for full specification Extended temperature range available on requester

Temperature Drift

0.03% per °C over operating temperature range

Cooling

Conduction to customer heatsink or chassis and natural convection

Environmental Protection

Ruggedizing Conformal coating

Shock/Vibration

IEC 61373 Cat 1 A&B

Humidity

5 - 95% non-condensing

MTRF

120,000 hours @ 45 °C Demonstrated MTBF is significantly higher

Indicators

Green 'Output ON' LED visible through cooling slots

Control Input

Optional

Alarm Outputs

None on standard version Form C available as option

Package/Dimensions (W x H x L)

F3: 132 x 64 x 300 mm (5.2" x 2.5" x 11.8") including terminal block and flanges Mounting holes are clear

Weight

2 kg (4.4lbs)

Connections

12-pole barrier-type terminal block 3/8" spacing.

RoHS Compliance

Compliant

Warranty

Two years subject to application within good engineering practice

Terminal Block Pin-out

V1 OUTPUT		V2 OUTPUT		ALARM (OPTION)			DC INPUT				
+	-	+	1	FAIL OPEN	сом	FAIL CLOSED	GND	-	1	+	+
1	2	3	4	5	6	7	8	9	10	11	12

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