

EXB50 Dual Series

Dual positive output

DC-DC CONVERTERS 50 W High Efficiency DC-DC Converters

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For the most current data and application support visit www.artesyn.com/powergroup/products.htm

INPUT VOLTAGE	OUTPUT VOLTAGE		OUTPUT CURRENT ⁽⁸⁾		OVP ⁽¹⁾		TYPICAL EFFICIENCY	MODEL NUMBER ^(7,9,10)
	1	2	1	2	1	2		
36-75 Vdc	3.3 V	1.8 V	8.5 A	8.5 A	4.12 V	2.34 V	86.4%	EXB50-48D3V3-1V8J
36-75 Vdc	5 V	3.3 V	7.5 A	7.5 A	6.25 V	4.12 V	89%	EXB50-48D05-3V3J

Notes

- 1 Latching OVP response time is 2 ms (typ.). OVP latch is reset by toggling the control input, or by cycling the input voltage.
- 2 User must provide recommended fuses in order to comply with safety approvals.
- 3 Meets both level A and level B conducted emissions only with external components connected before the input pins to the converter.
- 4 Maximum temperature on hotspots not to exceed 110 °C. See Application Note 127 on Artesyn Technologies website www.artesyn.com.
- 5 See the longform datasheet for derating curves.
- 6 For stable operation connect an external output capacitor of at least 100 µF to each output. Recommended capacity AVX TPS series (e.g. TPSD107*010#0100) or equivalents.
- 7 Active low remote ON/OFF, is available. Standard product is active high. Designate with the suffix '-R' e.g. EXB50-48D05-3V3-RJ.
- 8 Maximum total current from the module is 15 A for EXB50-48D05-3V3J and 17 A for EXB50-48D3V3-1V8J with airflow.
- 9 The 'J' suffix indicates that these parts are Pb-free (RoHS 6/6) compliant. TSE RoHS 5/6 (non Pb-free) compliant versions may be available on special request, please contact your local sales representative for details.
- 10 NOTICE: Some models do not support all options. Please contact your local Artesyn representative or use the on-line model number search tool at <http://www.artesyn.com/powergroup/products.htm> to find a suitable alternative.

PROTECTION

Short circuit	Continuous
Overvoltage	Latching
Thermal	125 °C with automatic recovery

TELECOM SPECIFICATION

Central office interface A	ETS300-132-2 input voltage and current requirements
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CAUTION: Hazardous internal voltages and high temperatures. Ensure that unit is not user accessible.

EXTERNAL OUTPUT TRIMMING

