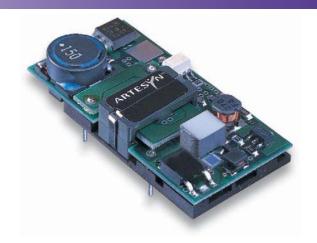
Rev.12.04.07 cxa10 1 of 4

CXA10Single output

Total Power: 10W
Input Voltage: 18 - 75VDC
of Outputs: Single



Special Features

- 4:1 input voltage range
- Operating ambient temperature of -40°C to +70°C in still air
- High demonstrated reliability with conservative component deratings
- Complies with ETS 300 019-1-3/2-3
- Complies with ETS 300 132-2 input voltage and current requirements
- Fully compliant with ETS 300 386-1
- Pin compatible with NFC10 and BXA10 series
- Basic insulation system (input to output)
- 2 year warranty

The CXA10 series comprising of five different models delivers single and dual output voltages covering 3.3 V, 5 V, 12 V, \pm 5 V, \pm 12 V and \pm 15 V. The series has a wide 4:1 input voltage range of 18Vdc to 75 Vdc. The CXA10 has been designed as a competitive open-frame alternative for the communications market. The product is supplied in the industry standard footprint of 2.0 x 1.0 x 0.394 inches. Other product features include overvoltage protection, short-circuit protection and remote ON/OFF. All components are placed in a fully automated environment. Planar magnetics are used in the design to improve the reliability and reduce the profile of the dc-dc converter. The series has full international safety approvals reducing system compliance costs, and it has a basic insulation system from input to output making it suitable for a wide variety of applications.

Safety

UL/cUL CAN/CSA 22.2 No. 60950-00 : UL 60950-1 File No. E132002

VDE Certificate No.112607. File No. 1040100-3336-0136 CB Report and Certificate to IEC60950-1, #DE 1-30686





Specifications

Rev.12.04.07 cxa10 2 of 4

All specifications are typical at nominal input, full load at 25°C unless otherwise stated.

OUTPUT SPECIFICATIONS			EMC CHARACTERISTICS			
Voltage accuracy		±1.0%	ETS 300 386-1 table 5 Conducted emissions	EN55022 (See No	te 6) Level A	
Line regulation (LL to HL)	Singles/dual posit Dual negatives	±0.1% ±0.2%	Radiated emissions	EN55022 (See No EN55022, externa VDE0878, 48 V m See Application N	ial filter, Level B nodels	
Load regulation (not incl. cross reg.)	Full load to minimum load	±0.15%	ESD air ESD contact Surge (500 V)	EN61000-4-2, lev EN61000-4-2, lev EN61000-4-5, lev	-2, level 3 -2, level 4	
Min. load	All outputs	10%	Fast trànsients	EN61000-4-4, lev	el 3, 4	
Ripple and noise 20 MHz bandwidth	3.3 V and 5.0 V All others	30 mV pk-pk 60 mV pk-pk	Radiated immunity Conducted immunity	EN61000-4-3, lev EN61000-4-6, lev		
20 WHZ Bandwidth	All models	12 mV rms	GENERAL SPECIFICATION	S		
Temperature coefficient		±0.01%/°C	Efficiency		See table	
Overvoltage protection	Clamp type (See table and Notes 3, 4)	Isolation voltage	Input/output test	voltage 1500 Vdc	
Short circuit protection	1 71 (Continuous	Switching frequency	Fixed	400 kHz	
Short <20 m Ω	Hiccup	auto. recovery	Approvals and standards (See Notes 7,8,9,10,11)		EN60950, UL1950 CSA C22.2 No. 950	
Transient response	Min. load to FL	±1.0%	Material flammability		UL94V-0	
Load cross regulation	Min. load to FL (Se	ee Note 1) ±5.0%	Weight		12 g (0.42 oz)	
INPUT SPECIFICATIONS			MTBF (Representative model 48S05] @ 48 Vin)	MIL-HDBK-217F Parts stress methor Ground Benign @		
Input voltage range	48 Vin nominal	18-75 Vdc	ENVIRONMENTAL SPECIF	ICATIONS		
Input fuse	(See Note 10)	1.5 A HRC	Thermal performance	Operating ambier	nt -40 °C to +70 °C,	
Max. input rise and fall time	48 V ETS300 132-	-2 5 V/ms	· 	temperature Non-operating	See curves -55 °C to +105 °C	
UVLO turn ON voltage	(See Note 5)	94%	ETS 300 019-2-3		Classes T3.1 to T3.5	
UVLO turn OFF voltage	(See Note 5)	86%	Air temperature	Low: IEC 68-2-1 High: IEC 68-2-2 Change: IEC 68-2-	-40 °C +70 °C -14 -40°C to +70 °C	
Remote ON/OFF Logic compatibility ON OFF	Cl	(See Note 7) MOS/TTL/Open Collector Open circuit	Relative humidity	IEC 68-2-56 IEC 68-2-30	10% to 100% RH Condensation	
		<1 Vdc	Vibration, Class 3M5 9-200 Hz 1 g	IEC68-2-6 MIL-STD-202F	2-9 Hz, 3 mm disp. Method 204 cond. A	
			Shock, Class 3M5	IEC-68-2-29 MIL-STD-202F	Method 213B cond. A	

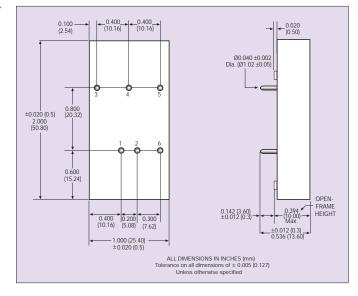
Specifications Contd.

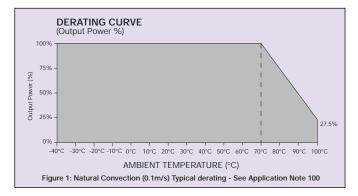
Rev.12.04.07 cxa10 3 of 4

INPUT VOLTAGE	OUTPUT VOLTAGE	OVERVOLTAGE PROTECTION (3.4)	OUTPUT CURRENT (MAX.)®	TYPICAL EFFICIENCY	MODEL NUMBER (7,12,13)
18-75 Vdc	3.3 V	3.9 V	2.4 A	78%	CXA10-48S3V3J
18-75 Vdc	5 V	6.8 V	2 A	81%	CXA10-48S05J
18-75 Vdc	12 V	16 V	0.83 A	83%	CXA10-48S12J
18-75 Vdc	±5 V	±6.8 V	1 A	81%	CXA10-48D05J
18-75 Vdc	±12 V	±16 V	0.41 A	83%	CXA10-48D12J
18-75 Vdc	±15 V	±19 V	0.33 A	81%	CXA10-48D15J

Notes

- 1 Negative output voltage deviation when positive load is changed.
- 2 Guaranteed minimum output voltage range.
- 3 TVS spec: See Application Note 100 on our web site.
- 4 On dual output models, OVP protection is on negative outputs only.
- 5 With respect to minimum input voltage.
- **6** With one external ITW Paktron 4.7 μF film capacitor across the input.
- 7 For units with optional remote ON/OFF, please add the suffix '-S' to the model number, e.g. CXA10-48S05-SJ. Additional alphanumeric suffixes maybe added to indicate minor modifications not affecting the safety approvals.
- 8 Unit provides basic insulation up to the 75 Vdc maximum input voltage.
- 9 Maximum continuous output power not to exceed 10 Watts. 7.9 Watts for the 3V3 model.
- **10** User must provide 1.5 A in line fuse in order to comply with safety approvals.
- 11 Maximum temperature on components Q100, CR101, CR102 not to exceed 120 °C. See Application Note 100 for details.
- 12 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.
- 13 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.





PIN CONNECTIONS						
PIN NUMBER	SINGLE OUTPUT	DUAL OUTPUT				
1	+ Input	+ Input				
2	– Input	- Input				
6 *	Remote ON/OFF	Remote ON/OFF				
3	+ Output	+ Output				
4	No Pin	Common				
5	- Output	- Output				

^{*} Optional remote ON/OFF pin. Please add the suffix '-S' to the model number, e.g. CXA10-48S05-S| (See Note 7).

CAUTION: Hazardous internal voltages and high temperatures. Ensure that unit is not user accessible.

Embedded Power for Business-Critical Continuity

Rev.12.04.07 cxa10 4 of 4

Americas

5810 Van Allen Way Carlsbad, CA 92008

USA

Telephone: +1 760 930 4600 Facsimile: +1 760 930 0698

Europe (UK)

Waterfront Business Park Merry Hill, Dudley West Midlands, DY5 1LX United Kingdom

Telephone: +44 (0) 1384 842 211 Facsimile: +44 (0) 1384 843 355

Asia (HK)

16th - 17th Floors, Lu Plaza 2 Wing Yip Street, Kwun Tong Kowloon, Hong Kong

Telephone: +852 2176 3333

Facsimile: +852 2176 3888

For global contact, visit:

www.powerconversion.com technicalsupport@powerconversion.com

While every precaution has been taken to ensure accuracy and completeness in this literature, Emerson Network Power assumes no responsibility, and disclaims all liability for damages resulting from use of this information or for any errors or omissions.

Emerson Network Power.

The global leader in enabling business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Power
- Inbound Power
- Integrated Cabinet Solutions
- Outside Plant
- Precision Cooling
- Site Monitoring and Services

EmersonNetworkPower.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co. ©2007 Emerson Electric Co.