# **Specifications**

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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 Note 6)	Level A
Line regulation (LL to HL)	Singles/dual po Dual negatives	sitives ±0.1% ±0.2%	Radiated emissions	EN55022 (See Note 6) EN55022, external filte VDE0878, 48 V model See Application Note 1	er, Level B
Load regulation (not incl. cross reg.)	Full load to minimum load	±0.15%	ESD air ESD contact Surge (500 V)	EN61000-4-2, level 3 EN61000-4-2, level 4 EN61000-4-5, level 4	
Min. load	All outputs	10%	Fast transients Radiated immunity	EN61000-4-4, level 3, EN61000-4-3, level 3	
Ripple and noise	3.3 V and 5.0 V	30 mV pk-pk	Conducted immunity	EN61000-4-6, level 3	
20 MHz bandwidth	All others All models	60 mV pk-pk 12 mV rms	GENERAL SPECIFICATIONS		
Temperature coefficient		±0.01%/°C	Efficiency		See table
Overvoltage protection	Clamp type	(See table and Notes 3, 4)	Isolation voltage	Input/output test volta	age 1500 Vdc
51	1 71		Switching frequency	Fixed	400 kHz
Short circuit protection Short <20 m $\Omega$	Hiccup	Continuous 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 (	(See Note 1) ±5.0%	Weight		12 g (0.42 oz)
INPUT SPECIFICATIONS			MTBF (Representative model 48S05J @ 48 Vin)	MIL-HDBK-217F Parts stress method Ground Benign @ 25 °(	456,621 hours
Input voltage range	48 Vin nominal 18-75 Vdc		ENVIRONMENTAL SPECIFICATIONS		
Input fuse	(See Note 10)	1.5 A HRC	Thermal performance	Operating ambient	-40 °C to +70 °C,
Max. input rise and fall time	48 V ETS300 13	2-2 5 V/ms		temperature Non-operating	See curves -55 °C to +105 °C
		94%	ETS 300 019-2-3		Classes T3.1 to T3.5
UVLO turn ON voltage UVLO turn OFF voltage	(See Note 5) (See Note 5)	86%	Air temperature	Low: IEC 68-2-1 High: IEC 68-2-2 Change: IEC 68-2-14	-40 °C +70 °C -40°C to +70 °C
Remote ON/OFF Logic compatibility ON	(See Note 7) CMOS/TTL/Open Collector Open circuit <1 Vdc		Relative humidity	IEC 68-2-56 IEC 68-2-30	10% to 100% RH Condensation
OFF			Vibration, Class 3M5 9-200 Hz 1 g	IEC68-2-6 MIL-STD-202F I	2-9 Hz, 3 mm disp. Method 204 cond. A
			Shock, Class 3M5	IEC-68-2-29 M MIL-STD-202F	ethod 213B cond. A

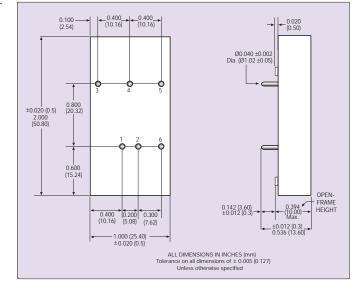
# Specifications Contd.

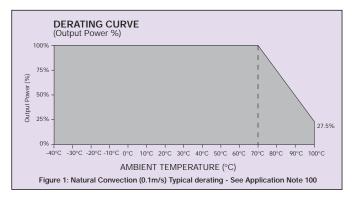
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INPUT VOLTAGE	OUTPUT VOLTAGE	OVERVOLTAGE PROTECTION (3.4)	OUTPUT CURRENT (MAX.)®	TYPICAL EFFICIENCY	MODEL NUMBER <sup>(7,12,13)</sup>
18-75 Vdc	3.3 V	3.9 V	2.4 A	78%	CXA10-48S3V3J
18-75 Vdc	5 V	6.8 V	2 A	81%	CXA10-48S05J
18-75 Vdc	12 V	16 V	0.83 A	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-SJ (See Note 7).

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

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### 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:

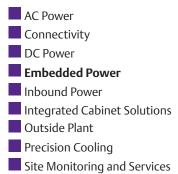
www.powerconversion.com

#### technicalsupport@powerconversion.com

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