CXA20 Series 查询"CXA20-48D12J"供应商 dual output



DC-DC CONVERTERS

20 W DC-DC Converters

4:1 input voltage range

- No minimum load on singles
- 6 A on 3.3 V output (@ 48 Vin) at 50 °C in still air
- Wide operating temperature with overtemperature protection
- ±10% output voltage trim
- Remote On/Off control
- Overvoltage protection
- Available RoHS complaint

The CXA20 is a new 20 W addition to the CXA family of open-frame, isolated, dc-dc converters. The five model series features a 4:1 input voltage range of 18 Vdc to 75 Vdc, making it suitable for a wide variety of communications and distributed power applications. With its 2.0 x 1.6 inch industry standard footprint, the CXA20 provides an easy upgrade option for new and existing Artesyn customers seeking a high-performance, cost-effective power supply. The CXA20 is available in output voltages of 3.3 V, 5 V, 12 V, ±5 V and ±12 V. The 3.3 V version delivering up to 6 A is fully rated to 20 W. Typical efficiency for the CXA20 is 83%. The CXA20 offers remote ON/OFF as well as overvoltage, overtemperature and short circuit protection features.











2 YEAR WARRANTY

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

SPECIFICATIONS

OUTPUT SPECIFICATIONS

Voltage accuracy		±1.0%
Line regulation (LL to HL)	Singles/dual positiv Dual negatives	es ±0.1% ±0.1%
Load regulation (not incl. cross reg.)	Full load to minimur S3V3 Singles/dual positiv Dual negatives	±0.2%
Minimum load	Singles Duals (for imbalance	ed loads) None 10%
Ripple and noise 20 MHz bandwidth	S3V3, S05, D05 S12, D12 All models	75 mV pk-pk max. 100 mV pk-pk max. 20 mV rms max.
Temperature coefficient	±0.02%/°C	
Overvoltage protection	See Application Note 107	
Short circuit protection Short <20 mΩ	Hiccup	Continuous automatic recovery
Transient response	25% load step	±2.0% max. dev., 300 µs recovery to vithin total error band
Load cross regulation (See Note 1)	10% load to full load, ±7.0% either output	

INPUT SPECIFICATIONS

Remote ON/OFF

dzsc.com

Input voltage range	48 Vin nominal	18-75 Vdc
Input fuse	HRC recommended	2.0 A
Max. input rise and fall time	48 V ETS300-132	5 V/ms
UVLO turn ON voltage	(See Note 4) (See Note 4)	92% 86%

CMOS/TTL/Open Collector Open circuit or >2 Vdc <1.2 Vdc

EMC CHARACTERISTICS

ETS 300 386-1 table 5	
Conducted emissions	EN55022, ext. cap. (Note 5) Level A
	EN55022, external filter, Level B VDE0878, 48V models
Radiated emissions	EN55022-B See App. Note 107
Immunity:	
ESD air	EN61000-4-2 8 kV (NP), 15 kV (RP)
ESD contact	EN61000-4-2 6 kV (NP), 8 kV (RP)
EFT DC power	EN61000-4-4 2 kV (NP), 4 kV (LFS)
EFT signal	EN61000-4-4 1 kV (NP), 2 kV (LFS)
Radiated field enclosure	EN61000-4-3 10 V/m (NP)
Surges indoor signal	EN61000-4-5 500 V (RP)
Conducted (dc power)	EN61000-4-6 10 V (NP)
Conducted (signal)	EN61000-4-6 10 V (NP)
Input transients	ETS 300 132-2, ETR 283

GENERAL SPECIFICATIONS

Efficiency			See table
Overtemp. shutdown		17	120 °C
Isolation voltage	Input/output tes	t voltage	1500 Vdc
Switching frequency	Fixed	40	400 kHz
Approvals and standards (See Notes 6,7,8)	J. WWY	L1950 File N	EN60950 No. E136005
Material flammability			UL94V-0
Weight		2	6 g (0.92 oz)
MTBF (Representative model 48S05.1 @ 48 Vin)	MIL-HDBK-217l Parts stress me Ground Benian	hod	5,000 hours

ENVIRONMENTAL SPECIFICATIONS

LITTING THE CITY	LonioAriono	
Thermal performance	Operating ambient temperature Non-operating	-40 °C to +60 °C, (See Note 9) -55 °C to +125 °C
ETS 300 019-2-3	Classe	es T3.1, 3.2, 3.3, 3.5
Air temperature	Low: IEC 68-2-1 High: IEC 68-2-2 Change: IEC 68-2-14	-40 °C +60 °C 4 -40 °C to +60 °C
Relative humidity	IEC 68-2-56	10% to 100% RH





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2

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

INPUT VOLTAGE	OUTPUT VOLTAGE	OVERVOLTAGE PROTECTION (2,3)	OUTPUT CURRENT (MAX.)	TYPICAL EFFICIENCY	MODEL NUMBER (10,11)
18-75 Vdc	3.3 V	3.7 V	6 A	80%	CXA20-48S3V3J
18-75 Vdc	5 V	6.67 V	4 A	83%	CXA20-48S05J
18-75 Vdc	12 V	14.25 V	1.66 A	83%	CXA20-48S12J
18-75 Vdc	±5 V	6.67 V	2 A ea.	84%	CXA20-48D05J
18-75 Vdc	±12 V	14.25 V	0.83 A ea.	84%	CXA20-48D12J

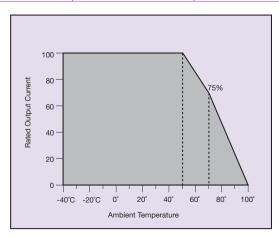
Notes

- 1 Negative output voltage deviation when either load is changed.
- 2 For TVS/Zener specifications please see Application Note 107.
- 3 On dual output models, OVP protection is on positive outputs only.
- 4 With respect to minimum input voltage.
- 5 With one external 4 µF capacitor across the input.
- 6 Unit provides basic insulation up to the 75 Vdc maximum input voltage.
- 7 Maximum continuous output power not to exceed 20 Watts.
- 3 User must provide 2 A HRC (recommended) in line fuse in order to comply with safety approvals.
- Download Application Note 107 and the full data sheet from our website.
- 10 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.
- 11 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	
3	No Pin	No Pin	
4	Remote On/Off	Remote On/Off	
5	No Pin	+ Output	
6	+ Output	Common	
7	- Output	- Output	
8	Trim	Trim	

MAY TEMPEDATII	RES FOR FULL RATED	CHITCHIT CHICCENT
MAA. ILMIFLIATO	NESTON TOLL NATED	OUTFUL COMMENT

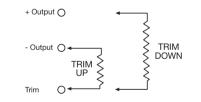
MODEL	FULL Vin RANGE	Vin <60 Vdc
48S3V3J	50 °C	50 ℃
48S05J	55 °C	60 °C
48S12J	50 °C	55 ℃
48D05J	55 °C	60 °C
48D12J	50 °C	60 °C



Derating Curve Output Current vs Temperature S3V3J Natural Convection (<0.1 m/s airflow)

EXTERNAL OUTPUT TRIMMING

All models can be externally trimmed by $\pm 10\%$ using either method shown below. See Application Note 107 for details.



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

International Safety Standard Approvals



UL/cUL CAN/CSA 22.2 No. 60950-00 : UL 60950 File No. E174104



VDE Certificate No.112836. File No. 10401-3336-0154 CB Report and Certificate to IEC60950, Licence No. 121914



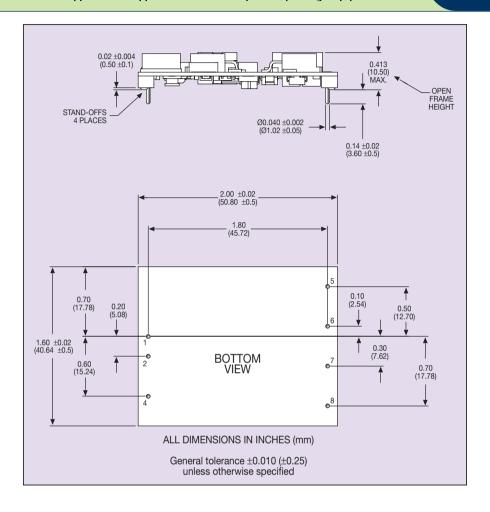


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