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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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EXB30 Series



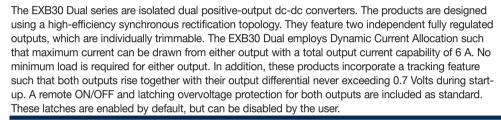
Dual positive output

DC-DC CONVERTERS

30 W High Efficiency DC-DC Converters

Two independent positive outputs

- Output voltage tracking
- High efficiency
- Approved to EN60950, UL1950, CSA C22.2 No. 950
- Operating ambient temperature of -40 °C to +70 °C (natural convection)
- Up to 100% load imbalance
- Separate trim on each output
- No minimum load
- Complies with ETS 300 019-1-3/2-3
- Fully compliant with ETS 300 386-1
- Available RoHS compliant













2 YEAR WARRANTY

SPECIFICATIONS

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

OUTPUT SPECIFICATIONS

Voltage adjustability	Both outputs		±11% min.
Voltage accuracy	Both outputs		±1.5% max.
Line regulation	Low line to high Low line to high		Vout1 ±0.4% Vout2 ±0.4%
Load regulation	Full load to no I	oad	±0.4%
Minimum load	Both outputs		0%
Ripple and noise 20 MHz bandwidth			nV pk-pk max. mV rms max.
Temperature coefficient			±0.02%/°C
Transient response peak dev. settling time	50% to 75% and to 1.0%, no ext		150 mV 400 μs
Short circuit protection Isc 8 Arms (See Note 3)	Both outputs	autor	Continuous natic recovery
Tracking			al 0.7 V during d in operation

INPUT SPECIFICATIONS

Input voltage range	24 Vin nominal 48 Vin nominal	18-36 Vdc 36-75 Vdc	
Input current	No load Remote OFF	150 mA max. 4 mA max.	
UVLO turn ON voltage UVLO turn OFF voltage	All inputs (See Note 2) All inputs (See Note 2)	94% typ. 86% typ.	
Start-up time	Nominal line	20 ms max.	
Active high remote ON/OFF			

Compatibility Open Collector ref. to -input ON Open circuit voltage 4.5 Vdc OFF 0.6 Vdc

EMC CHARACTERISTICS

ETS 300 386-1 table 5 Conducted emissions	EN55022 with ex EN55022 with ex		Level A Level B
Radiated emissions	EN55022 (See Ap	op. Note 109)	Level B
Immunity:	` .	. ,	
ESD air	EN61000-4-2	8 kV (NP), 15	5 kV (RP)
ESD contact	EN61000-4-2	6 kV (NÉ), 8	
EFT DC power	EN61000-4-4	2 kV (NP), 4	
EFT signal	EN61000-4-4	1 kV (NP), 2	
Radiated field enclosure	EN61000-4-3		V/m`(NP)
Surges indoor signal	EN61000-4-5	50	00 V (RP)
Conducted (DC power)	EN61000-4-6	1	10 V (NP)
Conducted (signal)	EN61000-4-6	1	10 V (NP)
Input transients	ETS 300 132-2, E	ETR 283	

GENERAL SPECIFICATIONS

Efficiency		See table
Basic insulation	Input/output	1500 Vdc
Input fuse 24 V Input fuse 48 V	(See Note 4)	3.5 A slow blow 2.0 A slow blow
Switching frequency	Fixed	280 kHz
Approvals and standards (See Notes 4, 6)		EN60950 Bi-national UL1950 CSA C22.2 No. 950
Weight		52 g (1.84 oz)
MTBF (See Application Note 109)	MIL-HDBK-217	6,283,000 hours

ENVIRONMENTAL SPECIFICATIONS

	Ciricalione	
Thermal performance	Operating ambient temperature Non-operating	-40 °C to +70 °C, See curves -55 °C to +105 °C
ETS 300 019-2-3	(Classes T3.1 to T3.5
Air temperature	Low: IEC 68-2-1 High: IEC 68-2-2 Change: IEC 68-2-1	-40 °C +70 °C 4 -40 °C to +70 °C
Relative humidity	IEC 68-2-56 IEC 68-2-30	10% to 100% RH condensation

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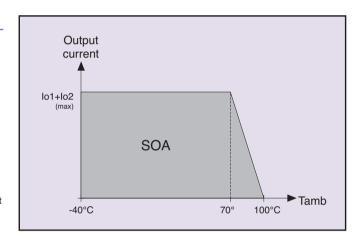
DC-DC CONVERTERS 30 W High Efficiency DC-DC Converters

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

INPUT	OUTPUT	VOLTAGE	OUTPUT C	URRENT (5)	OV	/P (1)	TYPICAL	MODEL
VOLTAGE	1	2	1	2	1	2	EFFICIENCY	NUMBER (7,8)
18-36 Vdc	5 V	3.3 V	6 A	6 A	6.25 V	4.13 V	87%	EXB30-24D05-3V3J
18-36 Vdc	3.3 V	2.5 V	6 A	6 A	4.13 V	3.13 V	85%	EXB30-24D3V3-2V5J
36-75 Vdc	5 V	3.3 V	6 A	6 A	6.25 V	4.13 V	88%	EXB30-48D05-3V3J
36-75 Vdc	3.3 V	2.5 V	6 A	6 A	4.13 V	3.13 V	85%	EXB30-48D3V3-2V5J

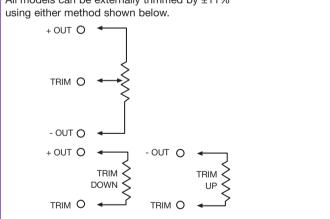
Notes

- Latching OVP response time is 1 ms (typical). OVP latch is reset by toggling remote ON/OFF or by recycling the input voltage.
- Figures are percentage of minimum input voltage.
- Rshort ≤20 mΩ.
- User must provide recommended fuses in order to comply with safety approvals.
- Maximum continuous output power. 30 Watts for D05-3V3J models 20 Watts for D3V3-2V5J models.
- Maximum temperature on hot spots not to exceed 120 °C. See Application Note 109 on our website for details.
- 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.
- 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.



EXTERNAL OUTPUT TRIMMING

All models can be externally trimmed by ±11%



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. E1741404

VDE Licence No. 122485. File No. 10401-3336-0157 CB Report and Certificate to IEC60950, Certificate No. DE1-31103



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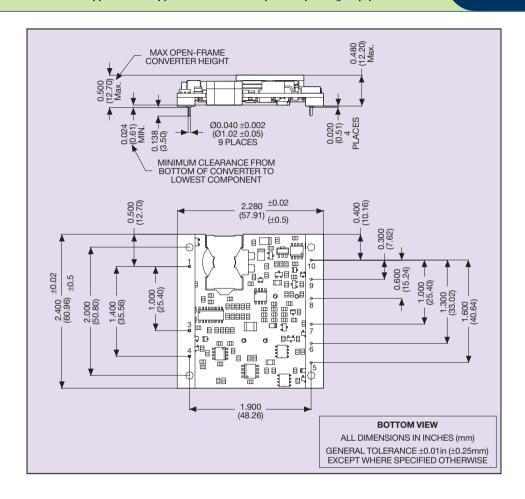
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PIN CONNECTIONS				
PIN NUMBER	FUNCTION			
1	- Vin			
2	No Pin			
3	Remote ON/OFF			
4	+ Vin			
5	OP1 Trim			
6	OP1 Return			
7	OP1			
8	OP2 Trim			
9	OP2 Return			
10	OP2			

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Please consult our website for the following items:

Application Note

Longform Data Sheet

www.artesyn.com