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 adjustability		80% to 110%	Conducted emissions	EN55022 (See No	ote 3) Level A
Set point accuracy		±1.5% max.	EN55022 (See Note 3) Radiated emissions	EN55022 (See Ap	op. Note 108) Level B
Line regulation	Low line to high	line 0.1% max.	lmmunity: ESD air	EN61000-4-2	8 kV (NP), 15 kV (RP)
Load regulation	Full load to min.	load 0.2% max.	ESD contact Radiated field enclosure	EN61000-4-2 EN61000-4-3	6 kV (NP), 8 kV (RP) 10 V/m (NP)
Total error band		±3.0%	Conducted (DC power) Conducted (signal)	EN61000-4-6 EN61000-4-6	10 V (NP) 10 V (NP) 10 V (NP)
Minimum load		0%	Input transients	ETS 300 132-2, E	TR 283
Overshoot	At turn-on and to	ırn-off None	GENERAL SPECIFICATION	NS	
Undershoot		None	Efficiency		See table
Ripple and noise (See Note 1)	5 Hz to 20 MHz	150 mV pk-pk 20 mV rms	Basic insulation	Input/output	1500 Vdc
Temperature coefficient		±0.02%/°C	Switching frequency	Fixed	300 kHz typ.
Transient response (See Note 2)	within total error	2.0% max. deviation 300 us recovery to	Approvals and standards (See Note 5)		VDE0805, EN60950 IEC950, UL/cUL1950 CSA C22.2 No. 950
Remote sense	10% output voltage change		Material flammability		UL94V-0
		on output voltage change	Weight		40 g (1.41 oz)
INPUT SPECIFICATIONS			MTBF @ 25 °C, 100% load	MIL-HDBK-217F	>300,000 hours
Input voltage range	48 Vin nominal	36-75 Vdc	ground benign		
Input current Remote OFF	No load 10 mA max.	50 mA max.	ENVIRONMENTAL SPECI	FICATIONS	
Input current (max.) (See Note 4)	48 V models	1.0 A max. @ lo max. and Vin = 36-75 Vdc	Thermal performance temperature	Operating ambie	ent -40 °C to +85 °C
Input reflected ripple	(See Note 6)	30 mA (pk-pk) typ.	Non-operating	-40 °C to +125 °C	
Active high remote ON/O Logic compatibility	Active high remote ON/OFF		ETS 300 019-2-3		Classes T3.1 to T3.5
ON OFF	0	pen collector ref to -input Open circuit or >2 Vdc <1.2 Vdc	Altitude Non-operating	Operating 40,000 feet max.	10,000 feet max.
Undervoltage lockout 48 Vin: power down	48 Vin: power up 31.5 V	34 V			
Start-up time (See Note 7)	Power up Remote ON/OFF	30 ms 30 ms			

Specifications Contd.

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OUTPUT POWER	INPUT VOLTAGE	OVP	OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT EFFICIENCY CURRENT (TYP.)		REGULATION		MODEL - NUMBER (8.9)
(MAX.)	VOLIAGE	3. .	VOLIAGE	(MIN.)	(MAX.)	(111.)	LINE	LOAD	NOWIDER ()
16 W	36-75 Vdc	2.3 Vdc	2 V	0 A	8 A	86%	±0.1%	±0.2%	EXB30-48S2V0J (EOL)
20 W	36-75 Vdc	2.9 Vdc	2.5 V	0 A	8 A	87%	±0.1%	±0.2%	EXB30-48S2V5J
26.4 W	36-75 Vdc	3.8 Vdc	3.3 V	0 A	8 A	90%	±0.1%	±0.2%	EXB30-48S3V3J
30 W	36-75 Vdc	5.65 Vdc	5 V	0 A	6 A	92%	±0.1%	±0.2%	EXB30-48S05J
30 W	36-75 Vdc	14.2 Vdc	12 V	0 A	2.5 A	90%	±0.1%	±0.2%	EXB30-48S12J

Notes

- 1 Measured as per recommended set-up.
- 2 di/dt = 0.1 A/ μ s, Vin = 48 Vdc, Tc = 25 °C, load change = 0.5 lo max. to 0.75 lo max. and 0.75 lo max. to 0.5 lo max.
- 3 The EXB30 meets level A and level B conducted emissions only with external components connected before the input pins to the converter. Full details are given in Application Note 108 on the website.
- 4 Recommended input fusing is a 2 A HRC 200 V rated fuse.
- 5 This product is only for inclusion by professional installers within other equipment and must not be operated as a stand alone product.
- 6 Simulated source impedance of 12 μ H. 12 μ H inductor in series with +Vin.
- 7 Start-up into resistive load.
- 8 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.
- 9 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

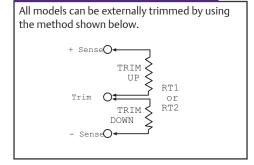
Short circuit	Continuous
Overvoltage	Non-latching clamp
Thermal	125 °C hot spot temperature with

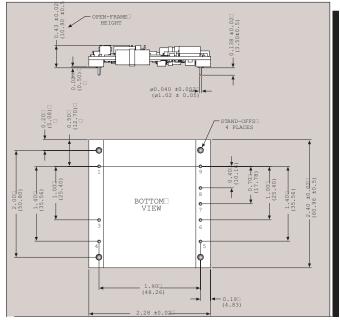
TELECOM SPECIFICATION

Central office interface A ETS300-132-2, input voltage and current requirements

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

EXTERNAL OUTPUT TRIMMING





PIN CONNECTIONS				
PIN NUMBER	FUNCTION			
1	- Vin			
2	No Pin			
3	Remote ON/OFF			
4	+ Vin			
5	+ Vout			
6	+ Sense			
7	Trim			
8	- Sense			
9	- Vout			

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