

Product Features

- Single, Dual , Triple DC/DC Converter, up to 40Watts
- Ideal for Telecom and Networking Applications
- 2:1 Input Range, High Efficiency
- Industry Compatible Pin Out, 2" x 2" Form Factor
- Remote On / Off, TTL
- Six Side Shielded, Low Profile 0.4" Height
- No external Input or Output Filtering required
- Regulated Output(s)
- >1500VDC I/O Isolation, UL, CUL approved
- MTBF = 1.398x10⁶ hours, Bellcore TR-NWT-000332



TYPICAL APPLICATIONS:

24Vdc or 48Vdc Telecom
 On-Board Distributed Power
 Low Profile & Height PCB
 Multiple Output Requirements

TABLE 1

Model Number	Input Voltage VDC	Output Volts//Amps	Effic. %
DB24S3.3-26	18-36	3.3 // 8	88
DB24S5-40	18-36	5 // 8	88
DB24S12-40	18-36	12 // 3.33	90
DB24S15-40	18-36	15 // 2.67	90
DB24D3.3-5-33**	18-36	3.3/5 // 4/4	88
DB24T3.3-12-31	18-36	3.3/+12 // 6/.4	88
DB24T3.3-15-31	18-36	3.3/4-15/6/.3	82
DB24T5-12-40	18-36	5/+12 // 6/+1.4	89
DB24T5-15-40	18-36	5/+15 // 6/+1.3	89
DB48S3.3-26	36-75	3.3 // 8	88
DB48S5-40	36-75	5 // 8	90
DB48S12-40	36-75	12 // 3.33	90
DB48S15-40	36-75	15 // 2.67	90
DB48D3.3-5-33**	36-75	3.3/5 // 4/4	88
DB48T3.3-12-31	36-75	3.3/+12 // 6/.4	88
DB48T3.3-15.31	36-75	3.3/ +/-15/6/.3	88
DB48T5-12-40	36-75	5/+12 // 6/+1.4	89
DB48T5-15-40	36-75	5/+15 // 6/+1.3	89

** UL/CUL PENDING

Overview

The DB Series of high efficiency DC/DC converters are available as single dual, or triple output versions, with up to 40 Watts of output power. The product is ideal for Telecom and Networking applications. The converter is designed for a 2:1 input range, either nominal 24 Volt (18VDC -36VDC) or nominal 48VDC (36VDC-75VDC). The converter is PCB mountable, the package has a form factor of 2" x2" x .4" and is six side shielded. The standard specifications include the Pi-input filter, excellent load regulation, remote ON/OFF capability, and short circuit protection. The isolation voltage meets the >1500VDC telecom requirements.

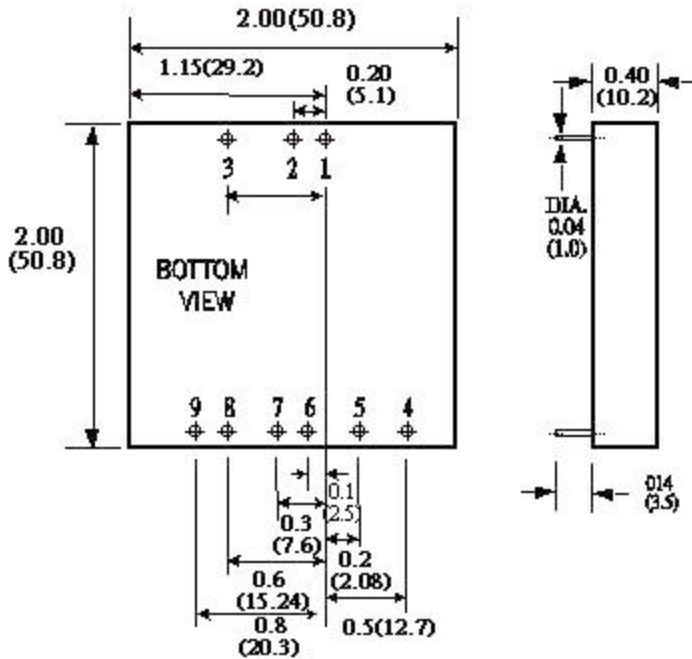
SPECIFICATIONS:

- Nominal Input: 48VDC (36-75VDC)
24VDC (18-36VDC)
- Output Voltage: see Table 1
- Output Power: 40W
- Efficiency: up to 90%
- Isolation Voltage: >1500VDC
- Operating Temperature: -25C to +71C
- Max. Case Temp. 100C
- Dimensions: 2" x 2" x 0.4"

For further information or Application Support:
www.wallindustries.com
 or call 1-888-597-WALL

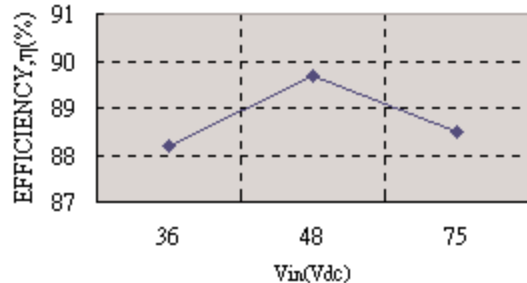
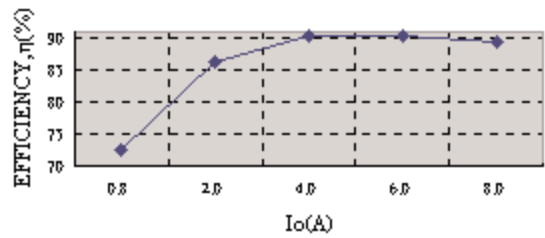
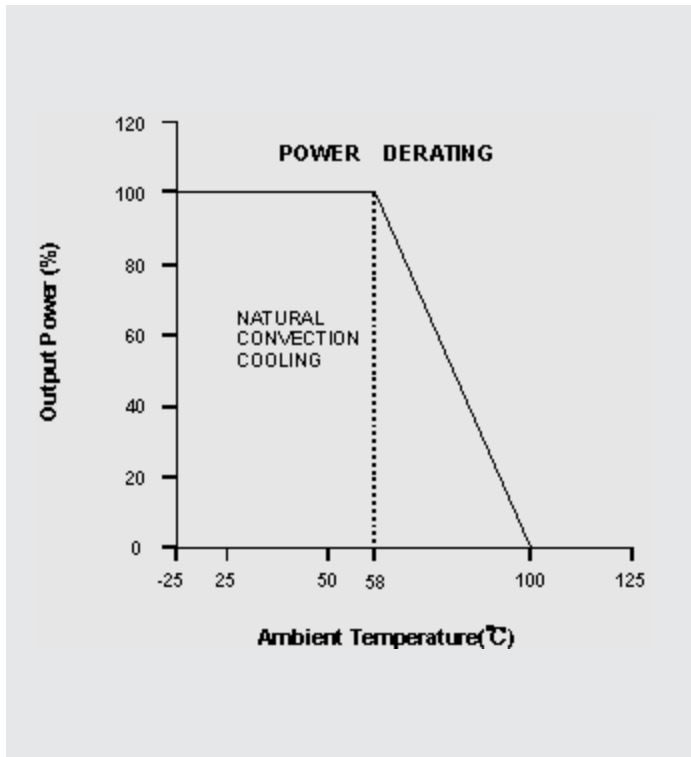
SPECIFICATION	METHOD	MIN.	TYP.	MAX.	UNITS
INPUT VOLTAGE:	48V version	36	48	75	Volts
	24V version	18	24	36	Volts
REMOTE ON/OFF	TTL				TTL logic
INPUT FILTER	Pi-Filter				
OUTPUT VOLTAGE			see table		Volts
OUTPUT VOLTAGE Set Point			+/- 1%		% of Vout
			auxillaries +/- 5%		
OUTPUT CURRENT			see table		A
OVERCURRENT PROTECTION	Limiting				% of Iout
OUTPUT RIPPLE	20MHz BW		<70mVpp		mV peak/peak
SHORT CIRCUIT PROTECTION	continuous				
LINE REGULATION	HL / LL		+/- 0.5% Main Output		
			+/- 3.0% Auxiliary Output		
LOAD REGULATION	10-100% load		+/- 0.5%(single)		
			+/-1% (dual)		
			+/-2% (triple), primary		
			+/- 5% (aux.)		
TRANSIENT RESPONSE	within +/-1% Vout		<500u sec		
OUTPUT TRIM	single output		10%		% of Vout
EFFICIENCY			see table		
ISOLATION VOLTAGE			>1500VDC		VDC/sec
ISOLATION RESISTANCE	In/Out >100MOhms				
SWITCHING FREQUENCY			300kHz typ.		
OPERATING TEMPERATURE		-25		+71	degree C
STORAGE TEMPERATURE		-55		105	degree C
WEIGHT			~2 oz		
DIMENSIONS	case w/o pin		2"x 2"x 0.4"		inches
CASE MATERIAL					Ni coated Cu

All case and Pin-to-Case dimensions are for reference only, unless otherwise noted. All DC/DC converters should be externally fused at the front end for protection. Significant capacitive load at the output of the converter may inhibit the start-up and operation.



All Dimensions in inches (mm)
Pin Pitch Tolerance +/- 0.35mm

PIN CONNECTIONS			
	Single	Dual	Triple
1	+Vin	+Vin	+Vin
2	-Vin	-Vin	-Vin
3	Ctrl	Ctrl	Ctrl
4	NC	3.3V	+Aux Out
5	-Sense	3.3V Return	Com
6	+Sense	NC	-Aux Out
7	+Vout	NC	+Vout
8	-Vout	5V	-Vout
9	Trim	5V Return	NC



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