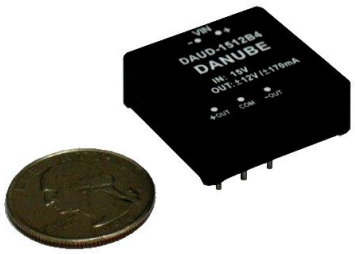
DAU-B4 SERIES

4W UNREGULATED

DANUBE

FEATURES

- DUAL IN LINE PACKAGE
- UP TO 4W UNREGULATED OUTPUT POWER
- NO EXTERNAL COMPONENTS REQUIRED
- 100% BURNED IN
- HIGH EFFICIENCY
- UL 94-V0 PACKAGE MATERIAL
- CUSTOM SOLUTIONS AVAILABLE
- RoHS COMPLIANT
- 3 YEARS WARRANTY



RoHS COMPLIANT

OUTPUT SPECIFICATIONS

Voltage Setpoint Accuracy	+/-3% max
Temperature Coefficient	+/-0.03%/°C
Ripple & Noise(20MHz BW)	100mVp-p max
Line Regulation[1]	+/-1.2% max
Load Regulation[2]	+/-8% max
Minimum Load	10% of Full Load
Short Circuit Protection	Momentary
Short Circuit Restart	Automatic
Transient Response[4]	200uS max

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C to +85°C
Case Temperature	+100°C max
Storage Temperature	-55°C to +100°C
Humidity	95% max
Cooling	Free-Air Convection

INPUT SPECIFICATIONS

Input Voltage Range		+/-15% max
Input Filter		Pi Network
Protection		Fuse Recommended

GENERAL SPECIFICATIONS

Efficiency		79%-88%
Isolation Voltage[3]		
In to Out		3000VDC min
Isolation Resistance		10^9 ohms min
Isolation Capacitance		80pF max
Leakage Current	Viso=240VAC	10μA(max)
Switching Frequency		50 KHz min
MTTF[5]		>850,000 Hours
Weight		16g Typ
Case Material		Six-Side Shielded Case
Case Size		28.58mm*28.58mm*10.16mm
Potting Material		Epoxy(UL94-V0)
EMC:		EMI Conducted : EN55022 class A
(designed to meet)		EMS Immunity :
		EN61000-4-2,3,4,5,6,8,
		light industry level ,criteria A

ALL SPECIFICATIONS TYPICAL AT NOMINAL LINE, FULL LOAD , AND 25°C UNLESS OTHERWISE NOTED.

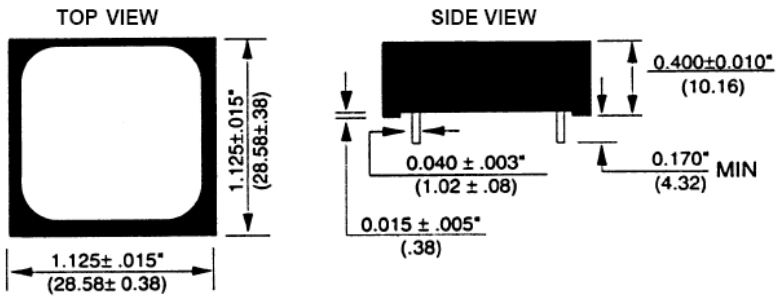
[1] *Line Regulation is for a 1.0% change in input Voltage.*
[2] *Load Regulation is for output load current change from 10% to 100%.*
[3] *1000VDC for 10 seconds,3000VDC for 3 seconds.*
[4] *25% Step Load Change.*
[5] *MIL-HDBK-217F @25 °C , Ground Benign.*

SELECTION GUIDE
4W OUTPUT

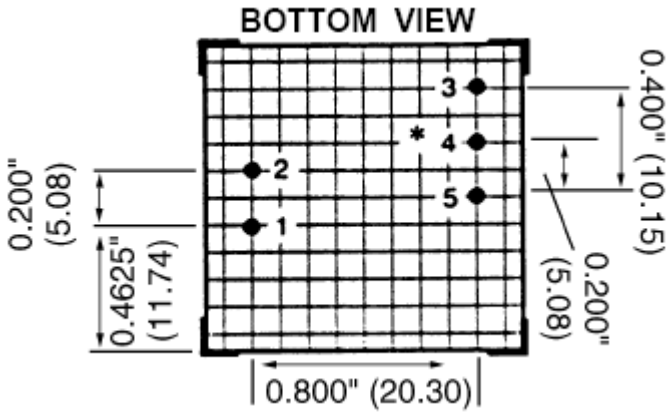
MODEL NUMBER	INPUT VOLTAGE (VDC)	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT (mA)	INPUT[6] CURRENT(mA)		EFF (%)[7]	PACKAGE / ISOLATION(VDC)
				FULL LOAD	NO LOAD		
DAUD-0512B4	5	+/-12	+/-170	972	50	82%	B / 3000V
DAUD-0515B4	5	+/-15	+/-135	972	50	82%	B / 3000V
DAUD-1212B4	12	+/-12	+/-170	412	35	81%	B / 3000V
DAUD-1215B4	12	+/-15	+/-135	412	35	81%	B / 3000V
DAUD-1512B4	15	+/-12	+/-170	328	30	81%	B / 3000V
DAUD-1515B4	15	+/-15	+/-135	328	30	81%	B / 3000V
DAUD-2412B4	24	+/-12	+/-170	202	30	83%	B / 3000V
DAUD-2415B4	24	+/-15	+/-135	202	30	83%	B / 3000V

Note: Other input to output voltages may be available. Please contact factory.

PACKAGE "B"



PIN	DUAL
1	+Vin
2	-Vin
3	+Vout
4	Common
5	-Vout

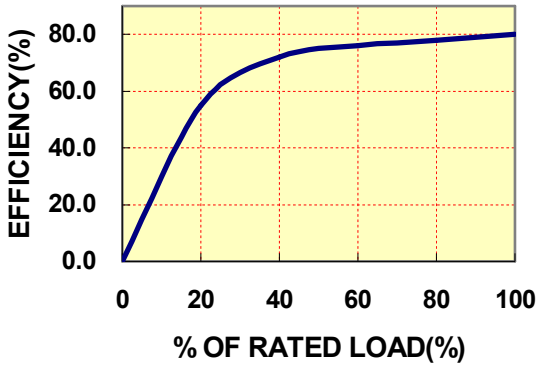


[6] *NOMINAL INPUT VOLTAGE.*
[7] *NOMINAL INPUT VOLTAGE, FULL LOAD.*

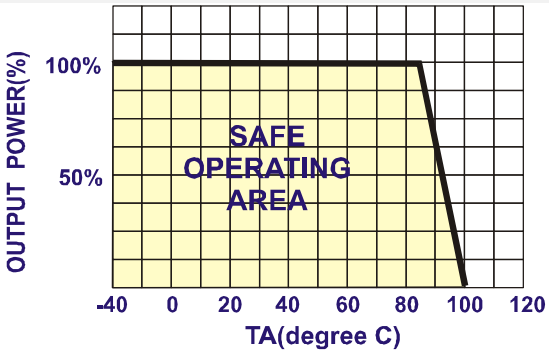
● TYPICAL PERFORMANCE CUREVES

Specifications typical at ta=25 °C , nominal input voltage , rated output current unless otherwise specified.

EFFICIENCY VS LOAD

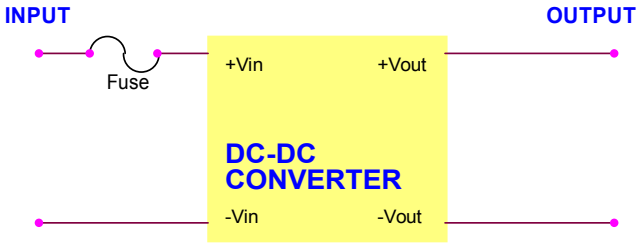


DERATING CURVE



● INPUT FUSE SELECTION GUIDE

5V INPUT VOLTAGE(VDC)	12V INPUT VOLTAGE(VDC)	15V INPUT VOLTAGE(VDC)	24V INPUT VOLTAGE(VDC)
2000mA Slow-Blow Type	1000mA Slow-Blow Type	800mA Slow-Blow Type	500mA Slow-Blow Type



Note: Certain applications may require the installation of external fuse in front of the input.

DAU-B4 SERIES APPLICATION NOTES:

EXTERNAL CAPACITANCE REQUIREMENTS:

No external capacitance is required for operation of the DAU-B4 series.

To meet the reflected ripple requirements of the converter, an input impedance of less than 0.5 ohm from DC to 100KHz is required.

External output capacitance is not required for operation, however it is recommended that 10uF tantalum and 0.1uF ceramic capacitance be selected for reduced system noise.

Additional output capacitance may be added for increased filtering, but should not exceed 220uF.

We Can Offer EMC-Filter According To EN55011/22 Class B.

Negative Outputs:

A negative output voltage may be obtained by connecting the +OUT to circuit ground and connecting –OUT as the negative output.

FOR MORE INFORMATION CALL:

Danube Enterprise Co., Ltd.

Tel: 886-7-3755165 Fax: 886-7-3755330 E-mail: danube@ms10.hinet.net

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