

DAV-1 SERIES, 1WATT, REGULATED WITH 2:1 INPUT RANGE
FEATURES:

- ✓ Wide (2:1) input voltage range
- ✓ 1500Vdc isolation voltage
- ✓ Regulated single and dual output models
- ✓ With remote off function
- ✓ No overshoot when switch on & off
- ✓ Continuous short circuit protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAV1-0511	5(4.5~9)	5	20	200	67%
DAV1-0512		9	11	110	72%
DAV1-0513		12	8.3	83	73%
DAV1-0514		15	6.8	68	72%
DAV1-0515		24	4.2	42	71%
DAV1-0521		±5	10	100	67%
DAV1-0522		±9	5.5	55	71%
DAV1-0523		±12	4.0	40	72%
DAV1-0524		±15	3.3	33	73%
DAV1-0525		±24	2.1	21	72%
DAV1-1211	12(9~18)	5	20	200	75%
DAV1-1212		9	11	110	77%
DAV1-1213		12	8.3	83	79%
DAV1-1214		15	6.8	68	80%
DAV1-1215		24	4.2	42	78%
DAV1-1221		±5	10	100	73%
DAV1-1222		±9	5.5	55	74%
DAV1-1223		±12	4.0	40	78%
DAV1-1224		±15	3.3	33	77%
DAV1-1225		±24	2.1	21	76%
DAV1-2411	24(18~36)	5	20	200	77%
DAV1-2412		9	11	110	79%
DAV1-2413		12	8.3	83	80%
DAV1-2414		15	6.8	68	80%
DAV1-2415		24	4.2	42	80%
DAV1-2421		±5	10	100	76%

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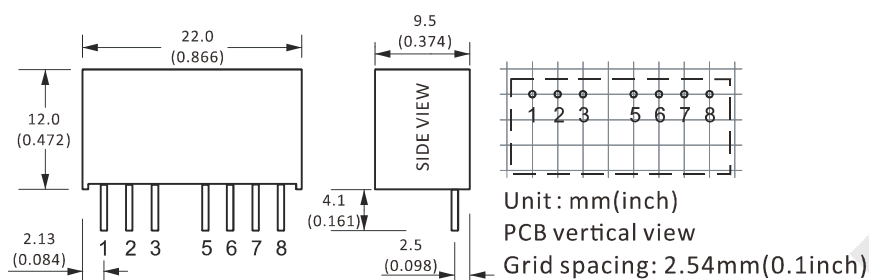
Model	Input voltage (Vdc)	Output voltage (Vdc)	Output Current (mA)		Efficiency Typ.
			Min.	Max.	
DAV1-2422	24(18~36)	±9	5.5	55	78%
DAV1-2423		±12	4.0	40	79%
DAV1-2424		±15	3.3	33	78%
DAV1-2425		±24	2.1	21	78%
DAV1-4811	48(36~72)	5	20	200	78%
DAV1-4812		9	11	110	78%
DAV1-4813		12	8.3	83	79%
DAV1-4814		15	6.8	68	80%
DAV1-4815		24	4.2	42	80%
DAV1-4821		±5	10	100	75%
DAV1-4822		±9	5.5	55	78%
DAV1-4823		±12	4.0	40	79%
DAV1-4824		±15	3.3	33	75%
DAV1-4825		±24	2.1	21	76%

Notes: other input and output models may available on request.

ELECTRICAL

Output voltage accuracy (Full voltage, full load)	+Vo	±±2.0%
	-Vo	±±3.0%
	Vo(no-load)	Main: ±±3.0%, Aux.:±±5.0%
Line regulation	Nominal load, full voltage	Main: ±±0.2%, Aux.:±±5.0%
Load regulation	10% ~ 100% rated load	Main: ±±0.5%, Aux.:±±0.75%
Ripple and noise	Nominal load and voltage, 20MHz bandwidth	100mVp-p max.
Temperature coefficient	Full load	±0.03%/°C
Continuous short circuit protection	---	Auto-recovery
Operating frequency	---	250KHz Typ.
Operating temperature range	---	-40°C to +85°C
Storage temperature range	Humidity 5%~95%RH non-condensing	-55°C to +125°C
Isolation voltage	≤0.5mA / 1min	1500Vdc
MTBF	MIL-HDBK-217F@25°C	1000KHrs
Weight	---	4.8g

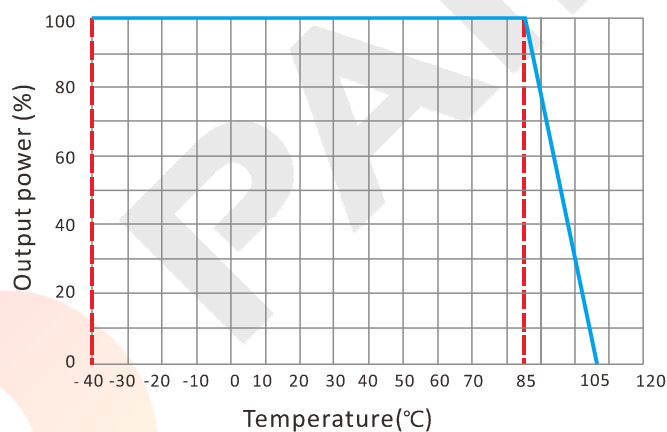
Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

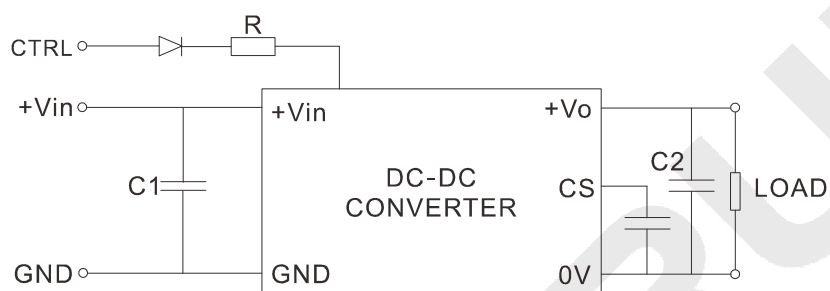
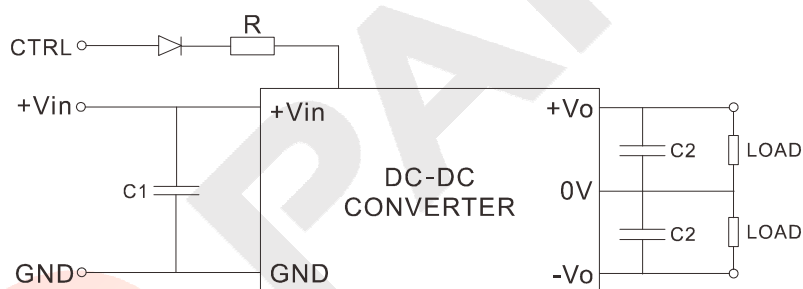
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MECHANICAL

CONNECTION

PIN #	SINGLE	DUAL
1	GND	GND
2	+Vin	+Vin
3	CTRL	CTRL
5	NC	NC
6	+Vo	+Vo
7	0V	0V
8	CS	-Vo

Note:

* Unit is mm(inch).

ELECTRICAL CURVE


DAV-1 SERIES, 1WATT, REGULATED WITH 2:1 INPUT RANGE
NOTES
RECOMMENDED TEST AND APPLICATION CIRCUIT
SINGLE OUTPUT

DUAL OUTPUT

CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	47 μ F	5VDC	330 μ F	$\pm$ 5VDC	100 μ F
12VDC	22 μ F	9VDC	220 μ F	$\pm$ 9VDC	68 μ F
24VDC	10 μ F	12VDC	100 μ F	$\pm$ 12VDC	47 μ F
48VDC	10 μ F	15VDC	100 μ F	$\pm$ 15VDC	47 μ F
--	--	24VDC	47 μ F	$\pm$ 24VDC	10 μ F