

DAE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

FEATURES:

- ✓ 1000Vdc isolation voltage
- ✓ Single, dual, isolated twin output models
- ✓ 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.	
DAE1-0510	5(4.5~5.5)	3.3	30	300	72%
DAE1-0511		5	20	200	70%
DAE1-0512		9	11	110	78%
DAE1-0513		12	8.3	83	78%
DAE1-0514		15	6.8	68	80%
DAE1-0515		24	4.2	42	81%
DAE1-0520		±3.3	15	150	72%
DAE1-0521		±5	10	100	72%
DAE1-0522		±9	5.5	55	77%
DAE1-0523		±12	4	40	79%
DAE1-0524		±15	3.3	33	80%
DAE1-0525		±24	2.1	21	81%
DAE1-0501		5, 5	10	100	70%
DAE1-0502		9, 9	5.5	55	76%
DAE1-0503		12, 12	4	40	77%
DAE1-0504		15, 15	3.3	33	78%
DAE1-0505		24, 24	2.1	21	76%
DAE1-1210	12(10.8~13.2)	3.3	30	300	74%
DAE1-1211		5	20	200	71%
DAE1-1212		9	11	110	76%
DAE1-1213		12	8.3	83	78%
DAE1-1214		15	6.8	68	79%
DAE1-1215		24	4.2	42	84%
DAE1-1220		±3.3	15	150	72%
DAE1-1221		±5	10	100	72%
DAE1-1222		±9	5.5	55	78%
DAE1-1223		±12	4	40	79%
DAE1-1224		±15	3.3	33	78%
DAE1-1225		±24	2.1	21	76%

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Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE1-1201	12(10.8~13.2)	5, 5	10	100	72%
DAE1-1202		9, 9	5.5	55	78%
DAE1-1203		12, 12	4	40	78%
DAE1-1204		15, 15	3.3	33	80%
DAE1-1205		24, 24	2.1	21	72%
DAE1-1510	15(13.5~16.5)	3.3	30	300	72%
DAE1-1511		5	20	200	72%
DAE1-1512		9	11	110	74%
DAE1-1513		12	8.3	83	76%
DAE1-1514		15	6.8	68	75%
DAE1-1515		24	4.2	42	72%
DAE1-1520		±3.3	15	150	72%
DAE1-1521		±5	10	100	72%
DAE1-1522		±9	5.5	55	74%
DAE1-1523		±12	4	40	76%
DAE1-1524		±15	3.3	33	79%
DAE1-1525		±24	2.1	21	78%
DAE1-1501		5, 5	10	100	72%
DAE1-1502		9, 9	5.5	55	78%
DAE1-1503		12, 12	4	40	78%
DAE1-1504	15, 15	3.3	33	80%	
DAE1-1505	24, 24	2.1	21	72%	
DAE1-2410	24(21.6~26.4)	3.3	30	300	72%
DAE1-2411		5	20	200	73%
DAE1-2412		9	11	110	75%
DAE1-2413		12	8.3	83	78%
DAE1-2414		15	6.8	68	79%
DAE1-2415		24	4.2	42	78%
DAE1-2420		±3.3	15	150	72%
DAE1-2421		±5	10	100	73%
DAE1-2422		±9	5.5	55	79%
DAE1-2423		±12	4	40	80%
DAE1-2424		±15	3.3	33	80%
DAE1-2425		±24	2.1	21	81%
DAE1-2401		5, 5	10	100	71%

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Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)		Efficiency Typ.
			Min.	Max.	
DAE1-2402	24(21.6~26.4)	9, 9	5.5	55	74%
DAE1-2403		12, 12	4	40	76%
DAE1-2404		15, 15	3.3	33	76%
DAE1-2405		24, 24	2.1	21	72%
DAE1-4811		48(43.2~52.8)	5	20	200
DAE1-4812	9		11	110	74%
DAE1-4813	12		8.3	83	76%
DAE1-4814	15		6.8	68	76%
DAE1-4821	±5		10	100	72%
DAE1-4822	±9		5.5	55	74%
DAE1-4823	±12		4	40	76%
DAE1-4824	±15		3.3	33	74%

**Notes: 1. other input and output models may available on request;
2. Add suffix "P" for short circuit protection.**

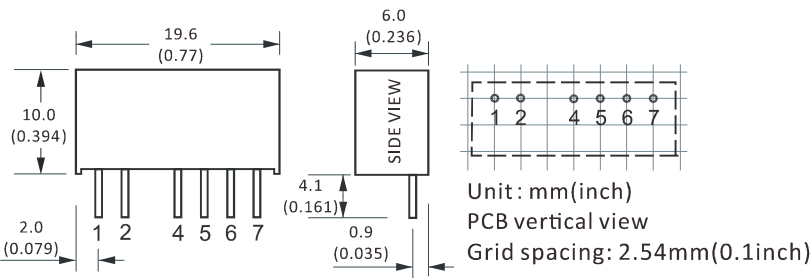
ELECTRICAL

Output voltage accuracy	---	±5% max.
Line regulation	---	Vo=3.3V, ±1.5% Others, ±1.2% max.
Load regulation	10% ~ 100% full load	Vo=3.3V, 20% Others, 15% max.
Switching frequency	---	100KHz
Ripple and noise	---	100mVp-p max.
Isolation voltage	---	1000Vdc
Short circuit protection	Only available for "DAE1-xx1xP" product	Continuous, auto-recovery
Operating temperature range	---	-55°C to +125°C
Storage temperature range	5%~95%, non-condensing	-40°C to +85°C
Temperature coefficient	---	±0.03%/°C
MTBF	MIL-HDBK-217F@25°C	3500KHrs
Weight	---	2.4g

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



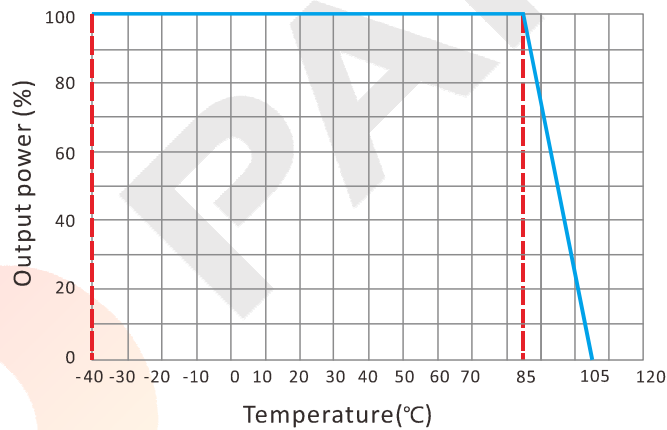
CONNECTION

PIN #	SINGLE	DUAL	ISOLATED
			TWIN
1	+Vin	+Vin	+Vin
2	GND	GND	GND
4	0V	-Vo	-Vo1
5	No Pin	0V	+Vo1
6	+Vo	+Vo	-Vo2
7	No Pin	No Pin	+Vo2

Note:

* Unit is mm(inch).

ELECTRICAL CURVE

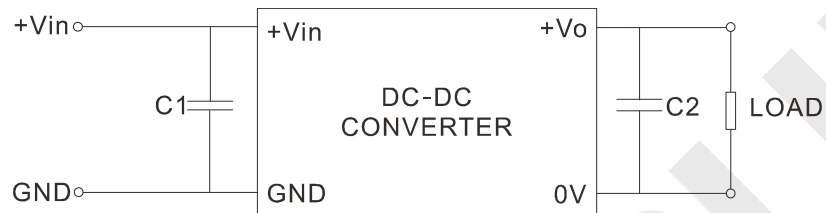


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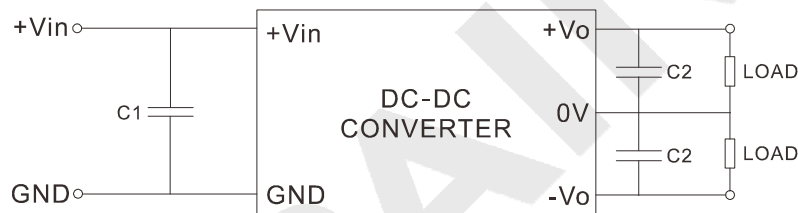
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

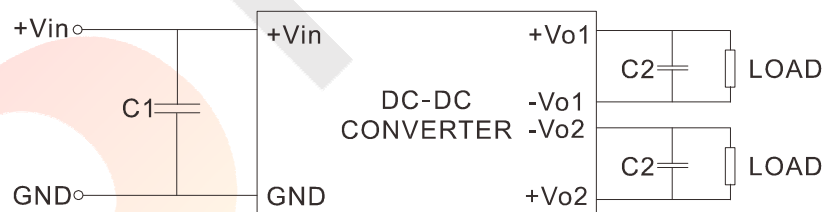
SINGLE OUTPUT



DUAL OUTPUT



ISOLATED TWIN OUTPUT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2	ISOLATED TWIN OUTPUT	C2
5VDC	4.7 μ F	3.3VDC	10 μ F	\pm 5VDC	4.7 μ F	5, 5VDC	4.7 μ F
12VDC	2.2 μ F	5VDC	10 μ F	\pm 9VDC	2.2 μ F	9, 9VDC	2.2 μ F
15VDC	2.2 μ F	9VDC	4.7 μ F	\pm 12VDC	1.0 μ F	12, 12VDC	1.0 μ F
24VDC	1.0 μ F	12VDC	2.2 μ F	\pm 15VDC	0.47 μ F	15, 15VDC	0.47 μ F
48VDC	0.47 μ F	15VDC	1.0 μ F	\pm 24VDC	0.47 μ F	24, 24VDC	0.47 μ F
--	--	24VDC	1.0 μ F	--	--	--	--