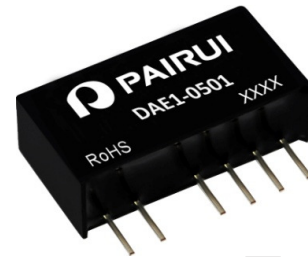


DAE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

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		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	5(4.5~5.5)	±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		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	12(10.8~13.2)	±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%

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

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%

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

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.**

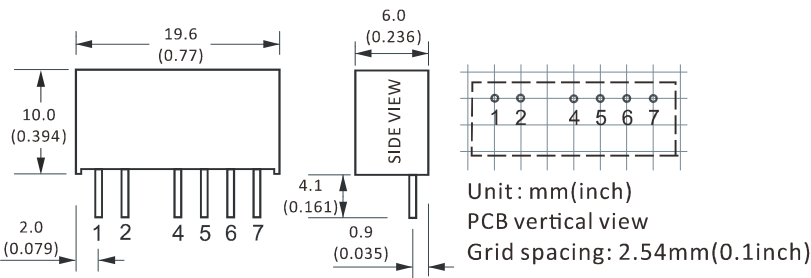
**ELECTRICAL**

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.**

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

MECHANICAL



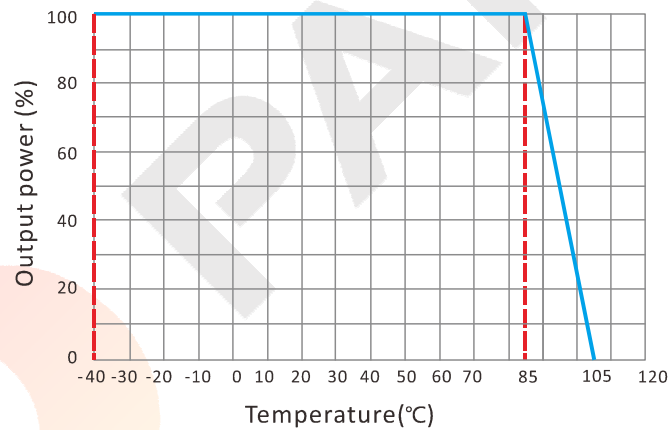
CONNECTION

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

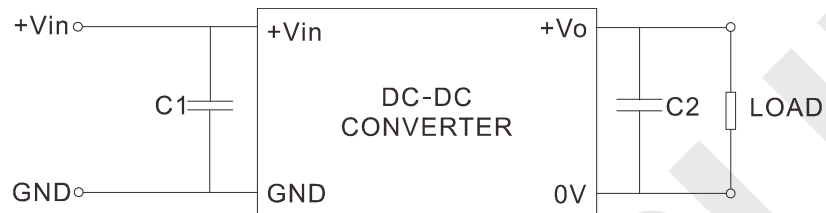


DAE-1 SERIES, 1WATT, 1KVDC, UNREGULATED

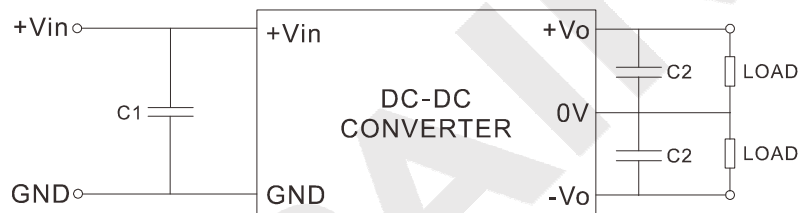
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

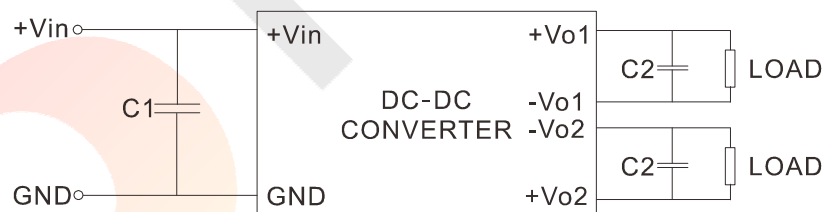
SINGLE OUTPUT



DUAL OUTPUT



ISOLATED TWIN OUTPUT



CAPACITOR SELECTION

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