

**DLV-40 SERIES, 40WATT, 2:1 INPUT RANGE**

**FEATURES:**

- ✓ 2 year warranty
- ✓ Six-side shielded metal case
- ✓ Low ripple and noise
- ✓ Over current and short circuit protection
- ✓ Remote on/off
- ✓ Adjustable output voltage



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DLV40-1211	12(9~18)	5	8000	80%
DLV40-1212		12	3300	85%
DLV40-1213		15	2670	85%
DLV40-1214		24	1660	85%
DLV40-1221		±5	±4000	80%
DLV40-1222		±12	±1660	85%
DLV40-1223		±15	±1330	85%
DLV40-1224		±24	±830	85%
DLV40-2410	24(18~36)	3.3	8000	72%
DLV40-2411		5	8000	80%
DLV40-2412		12	3300	85%
DLV40-2413		15	2670	85%
DLV40-2414		24	1660	85%
DLV40-2421		±5	±4000	80%
DLV40-2422		±12	±1660	85%
DLV40-2423		±15	±1330	85%
DLV40-2424	±24	±830	85%	
DLV40-4811	48(36~72)	5	8000	80%
DLV40-4812		12	3300	85%
DLV40-4813		15	2670	85%
DLV40-4814		24	1660	85%
DLV40-4821		±5	±4000	80%
DLV40-4822		±12	±1660	85%
DLV40-4823		±15	±1330	85%
DLV40-4824		±24	±830	85%
DLV40-11011	110(72~144)	5	8000	80%
DLV40-11012		12	3300	85%
DLV40-11013		15	2670	85%
DLV40-11014		24	1660	85%

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Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DLV40-11021	110(72~144)	±5	±4000	80%
DLV40-11022		±12	±1660	85%
DLV40-11023		±15	±1330	85%
DLV40-11024		±24	±830	85%

**Notes:**

1. Other input and output models may available on request;
2. Above models are default to metal case.

**ELECTRICAL**

Input voltage range	12V	9-18Vdc
	24V	18-36Vdc
	48V	36-72Vdc
	110V	72-144Vdc
Remote control (Low level remote)	High level or vacant	Turn on
	Low level or connect ground	Turn off
Output voltage accuracy	---	Vo1, Vo2: ±1%, ±3%
Output voltage adjustable	---	±10% max.
Line regulation	Nominal Load, full voltage	Vo1, Vo2: ±0.2%, ±1.5%
Load regulation	20% ~ 100% rated load	Vo1, Vo2: ±0.5%, ±4%
Dynamic response (transient/recovery time)	5%-50%-75% load capability	$\Delta V_{o1}/\Delta t$ : ±4.0%/500 $\mu$ s
Ripple and noise	20MHz BM, full load	Vo≤5.0V, ≤50mVp-p
		Vo≥48V, ≤180mVp-p
		Other, ≤100mVp-p
Isolation voltage (<2mA/min)	Input to output	1500Vdc
	Input to case	500Vdc
Switching frequency	300KHz	330KHz max.
Turn-on delay time	---	≤200ms
Operating temperature range	Free air	-25°C to +55°C
Storage temperature range	---	-45°C to +105°C
Input under voltage protection	When input voltage is lower than the low input voltage	Auto-recovery
Over current protection	---	Auto-recovery
Short circuit protection	---	Continuous auto-recovery
Cooling method	---	Cooling by air convection
Relative humidity	---	10%-90% max.
Weight	---	112g

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**ELECTRICAL**

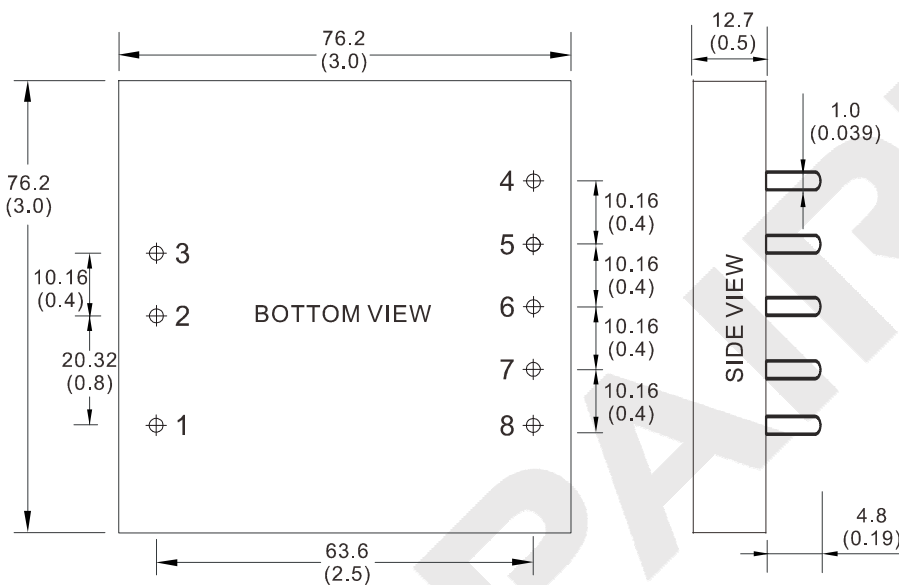
MTBF

Bellcore TR-332, 25°C

2x10<sup>5</sup>Hrs

Notes: Unless otherwise specified, all the parameters of the test conditions are as follows: ambient temperature 25°C, the nominal input voltage, pure resistive nominal load.

**MECHANICAL**



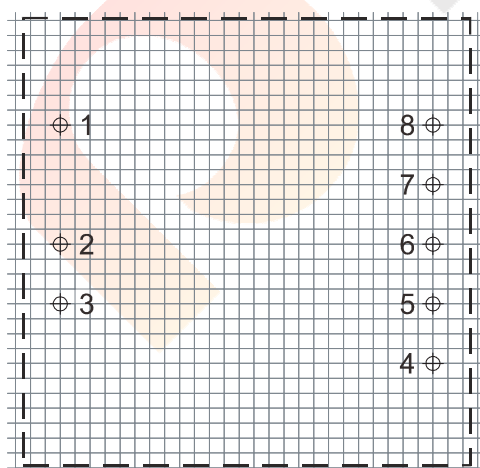
**CONNECTION**

PIN #	SINGLE	DUAL
1	REM	REM
2	+Vin	+Vin
3	-Vin	-Vin
4	NC	NC
5	NC	-Vo2
6	GND	COM
7	+Vo	+Vo1
8	TRIM	TRIM

Note:

\* Unit is mm(inch).

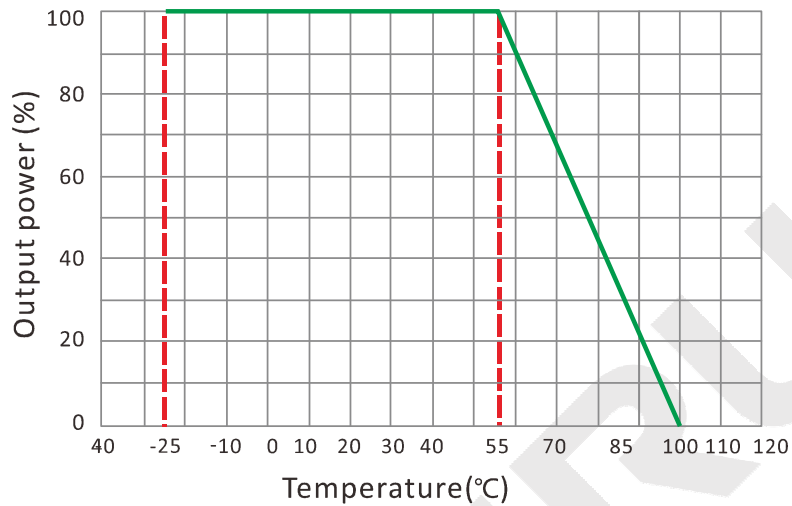
**LAYOUT**



Unit : mm(inch)  
PCB vertical view  
Grid spacing: 2.54mm(0.1 inch)

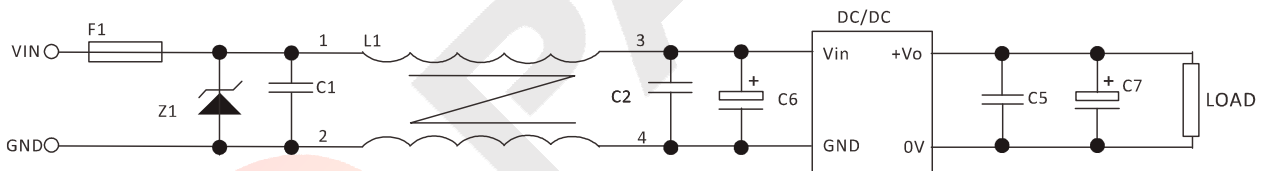
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TEMPERATURE PROFILE



NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



1. TVS&FUSE be helpful with over voltage protection and inrush limiting. Recommended FUSE better be 1.5~2times of the rated current .
2. The input filter capacitor C6 could select the aluminum electrolytic capacitors or tantalum capacitors, and the withstand voltage should be greater than the highest input voltage. Recommended capacitor should be between 22 $\mu$ F~100 $\mu$ F.
3. C1,C2 for the input filter capacitor,0.1~1 $\mu$ F high-frequency ceramics capacitor or chip capacitor are recommended. The withstand voltage of output filter C5, C7 should be greater than the highest output voltage. Recommended capacitor of C7 better within 100 $\mu$ F and C5 connected with the chip to reduce the input voltage peak, recommended 0.1~1 $\mu$ F high-frequency ceramics capacitor or chip capacitor.