

DMV-3 SERIES, 3WATT, 2:1 INPUT RANGE

FEATURES:

- ✓ 1500Vdc isolation voltage
- ✓ Metal case with low ripple and noise
- ✓ Short circuit and input under voltage protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DMV3-0511	5(4.5~9)	3.3	600	72%
DMV3-0512		5	600	74%
DMV3-0513		9	330	76%
DMV3-0514		12	250	80%
DMV3-0515		15	200	81%
DMV3-0516		24	125	80%
DMV3-0521		±3.3	300	72%
DMV3-0522		±5	300	75%
DMV3-0523		±9	165	77%
DMV3-0524		±12	125	81%
DMV3-0525		±15	100	83%
DMV3-0526		±24	60	80%
DMV3-1211	12(9~18)	3.3	600	72%
DMV3-1212		5	600	80%
DMV3-1213		9	330	81%
DMV3-1214		12	250	82%
DMV3-1215		15	200	82%
DMV3-1216		24	125	83%
DMV3-1221		±3.3	300	82%
DMV3-1222		±5	300	80%
DMV3-1223		±9	165	81%
DMV3-1224		±12	125	82%
DMV3-1225		±15	100	82%
DMV3-1226		±24	60	83%
DMV3-2411	24(18~36)	3.3	600	70%
DMV3-2412		5	600	77%
DMV3-2413		9	330	81%
DMV3-2414		12	250	84%
DMV3-2415		15	200	84%
DMV3-2416		24	125	84%

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Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DMV3-2421	24(18~36)	±3.3	300	72%
DMV3-2422		±5	300	76%
DMV3-2423		±9	165	81%
DMV3-2424		±12	125	82%
DMV3-2425		±15	100	82%
DMV3-2426		±24	60	83%
DMV3-4811	48(36~72)	3.3	600	70%
DMV3-4812		5	600	80%
DMV3-4813		9	330	81%
DMV3-4814		12	250	82%
DMV3-4815		15	200	84%
DMV3-4816		24	125	84%
DMV3-4821		±3.3	300	72%
DMV3-4822		±5	300	80%
DMV3-4823		±9	165	81%
DMV3-4824		±12	125	82%
DMV3-4825		±15	100	83%
DMV3-4826		±24	60	83%

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

ELECTRICAL

Output voltage accuracy (Full voltage, full load)	+Vo -Vo	±2% max. ±3% max.
Line regulation	Nominal Load, full voltage	±0.5% max.
Load regulation	20% ~ 100% full load	±1% max.
Ripple and noise	20MHz BM, full load	75mVp-p max.
Operating frequency	Typical value	100KHz typ.
Isolation voltage (<1mA/min)	Input to output	1500Vdc
Isolation resistance	---	1000mΩ
Temperature coefficient	---	±0.03%/°C max.
Operating temperature range	---	-40°C to +85°C
Storage temperature range	---	-55°C to +120°C
Short circuit protection	---	Continuous, auto-recovery
Relative humidity	---	10%-90%
MTBF	Bellcore TR-332, 25°C	1000KHrs

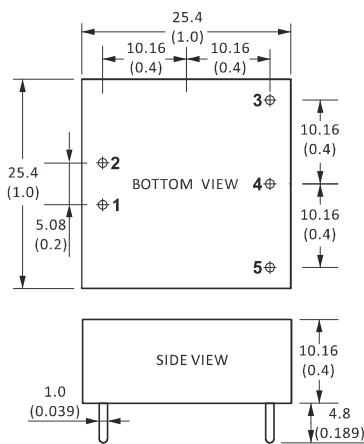
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ELECTRICAL

Weight --- 12g

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.

MECHANICAL



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

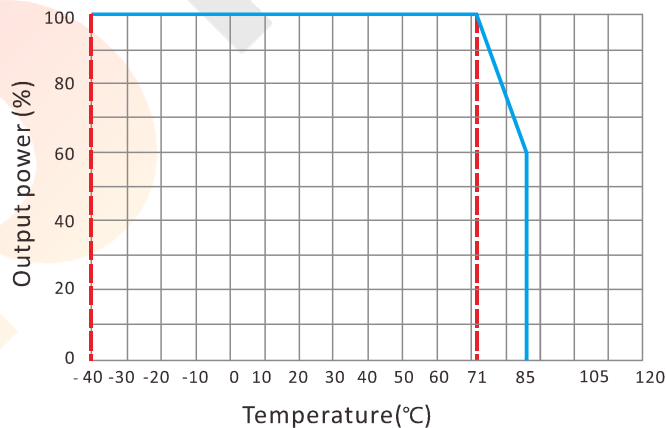
CONNECTION

PIN #	SINGLE	DUAL
1	GND	GND
2	+Vin	+Vin
3	+Vo	+Vo
4	No Pin	0V
5	0V	-Vo

Note:

* Unit is mm(inch).

ELECTRICAL CURVE

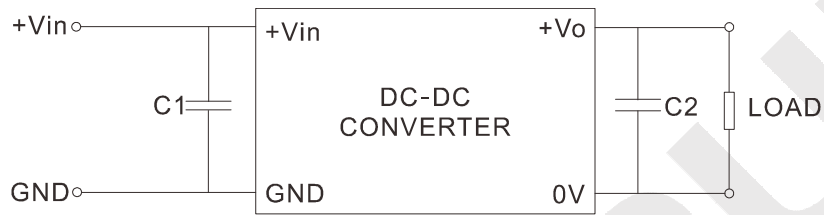


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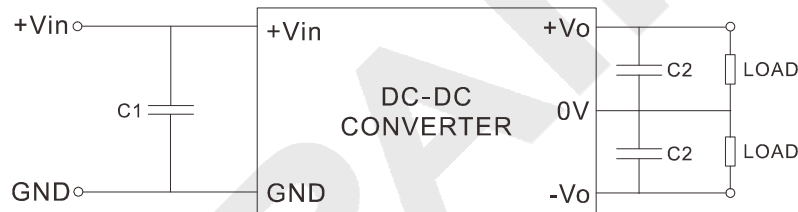
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	100 μ F	5VDC	330 μ F	\pm 5VDC	220 μ F
12VDC	47 μ F	9VDC	220 μ F	\pm 9VDC	100 μ F
24VDC	47 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	22 μ F