

DMV-5 SERIES, 5WATT, 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.
DMV5-0511	5(4.5~9)	3.3	1000	72%
DMV5-0512		5	1000	75%
DMV5-0513		9	550	76%
DMV5-0514		12	410	77%
DMV5-0515		15	330	78%
DMV5-0516		24	210	78%
DMV5-0521		±3.3	500	70%
DMV5-0522		±5	500	74%
DMV5-0523		±9	275	75%
DMV5-0524		±12	205	77%
DMV5-0525		±15	165	78%
DMV5-0526		±24	100	77%
DMV5-1211		12(9~18)	3.3	1000
DMV5-1212	5		1000	75%
DMV5-1213	9		550	76%
DMV5-1214	12		410	77%
DMV5-1215	15		330	78%
DMV5-1216	24		210	79%
DMV5-1221	±3.3		500	70%
DMV5-1222	±5		500	78%
DMV5-1223	±9		275	80%
DMV5-1224	±12		205	80%
DMV5-1225	±15		165	81%
DMV5-1226	±24		100	81%
DMV5-2411	24(18~36)		3.3	1000
DMV5-2412		5	1000	81%
DMV5-2413		9	550	79%
DMV5-2414		12	410	80%
DMV5-2415		15	330	81%
DMV5-2416		24	210	82%

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Model	Input voltage (Vdc)	Output voltage (Vdc)	Output Current (mA)	Efficiency Typ.
DMV5-2421	24(18~36)	±3.3	500	70%
DMV5-2422		±5	500	79%
DMV5-2423		±9	275	79%
DMV5-2424		±12	205	81%
DMV5-2425		±15	165	83%
DMV5-2426		±24	100	83%
DMV5-4811	48(36~72)	3.3	1000	72%
DMV5-4812		5	1000	80%
DMV5-4813		9	550	82%
DMV5-4814		12	410	82%
DMV5-4815		15	330	83%
DMV5-4816		24	210	84%
DMV5-4821		±3.3	500	72%
DMV5-4822		±5	500	79%
DMV5-4823		±9	275	79%
DMV5-4824		±12	205	81%
DMV5-4825		±15	165	83%
DMV5-4826		±24	100	83%

Notes: 1. Other input and output models may available on request;  
2. Above items are defalut 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	120mVp-p max.
Operating frequency	Typical value	300KHz 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 +125°C
Short circuit protection	---	Continuous, auto-recovery
Relative humidity	---	10%-90% max.

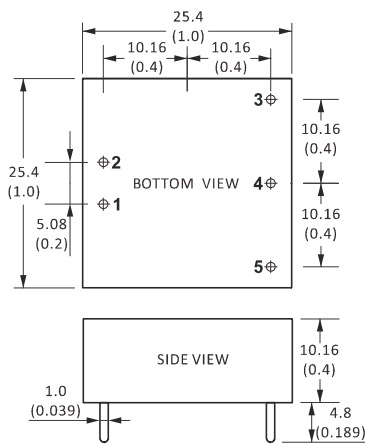
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**ELECTRICAL**

MTBF	Bellcore TR-332, 25°C	1000Khrs
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)

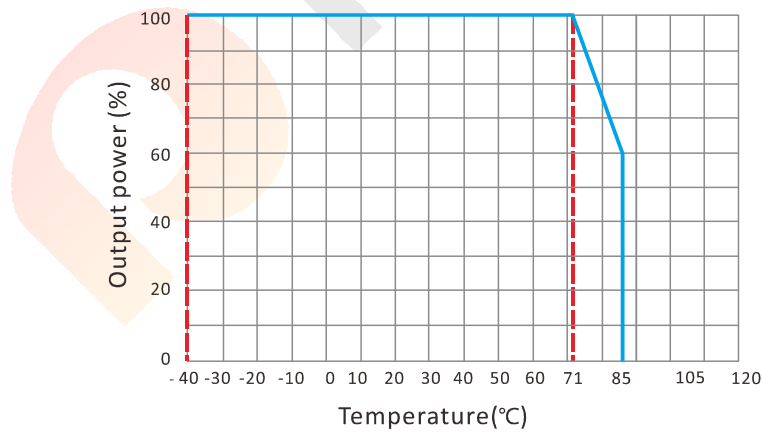
**CONNECTION**

PIN #	SINGLE	DUAL
1	GND	GND
2	+Vin	+Vin
3	+Vo	+Vo1
4	No Pin	0V
5	0V	-Vo2

Note:

\* Unit is mm(inch).

**ELECTRICAL CURVE**

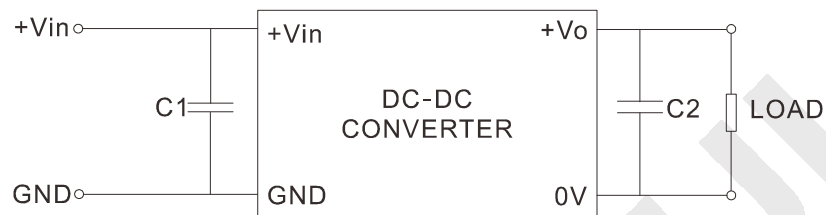


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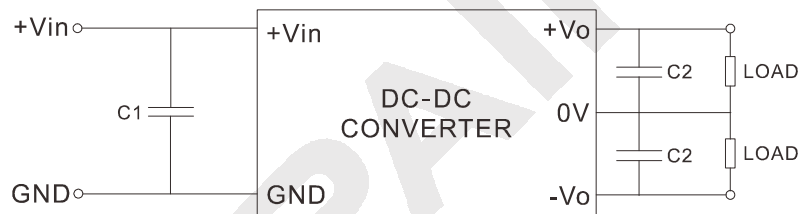
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	100 $\mu$ F	5VDC	1000 $\mu$ F	$\pm$ 5VDC	470 $\mu$ F
12VDC	47 $\mu$ F	9VDC	470 $\mu$ F	$\pm$ 9VDC	220 $\mu$ F
24VDC	47 $\mu$ F	12VDC	220 $\mu$ F	$\pm$ 12VDC	100 $\mu$ F
48VDC	10 $\mu$ F	15VDC	220 $\mu$ F	$\pm$ 15VDC	100 $\mu$ F
--	--	24VDC	100 $\mu$ F	$\pm$ 24VDC	47 $\mu$ F