

DMV-10 SERIES, 10WATT, 2:1 INPUT RANGE

FEATURES:

- ✓ 1500Vdc isolation voltage
- ✓ Six-side shielded metal case with low ripple and noise
- ✓ High reliability, high efficiency
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DMV10-1211	12(9~18)	5	2000	80%
DMV10-1212		9	1111	82%
DMV10-1213		12	833	83%
DMV10-1214		15	667	83%
DMV10-1215		24	417	85%
DMV10-1221		±5	1000	81%
DMV10-1222		±9	555	82%
DMV10-1223		±12	417	83%
DMV10-1224		±15	333	84%
DMV10-1225		±24	208	84%
DMV10-2411	24(18~36)	5	2000	80%
DMV10-2412		9	1111	82%
DMV10-2413		12	833	83%
DMV10-2414		15	667	84%
DMV10-2415		24	417	86%
DMV10-2421		±5	1000	81%
DMV10-2422		±9	555	82%
DMV10-2423		±12	417	83%
DMV10-2424		±15	333	84%
DMV10-2425		±24	208	84%
DMV10-4811	48(36~72)	5	2000	81%
DMV10-4812		9	1111	82%
DMV10-4813		12	833	84%
DMV10-4814		15	667	84%
DMV10-4815		24	417	86%
DMV10-4821		±5	1000	81%
DMV10-4822		±9	555	82%
DMV10-4823		±12	417	83%
DMV10-4824		±15	333	84%
DMV10-4825		±24	208	84%

Notes:

DMV-10 SERIES, 10WATT, 2:1 INPUT RANGE

1. Other input and output models may available on request;
2. Add suffix "C" for CTRL pin function.

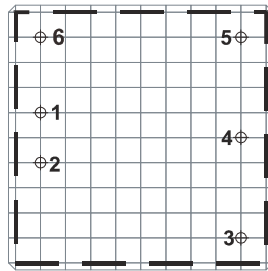
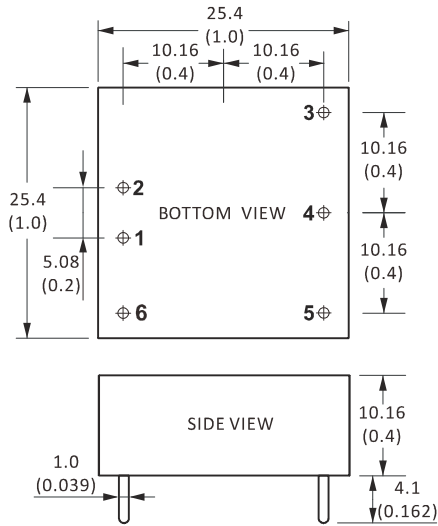
ELECTRICAL

Output voltage accuracy	---	±2% max.
Line regulation	Nominal Load, full voltage	±0.5% max.
Load regulation	5% ~ 100% rated load	±1% max.
Switching frequency	Rated input voltage	300KHz typ.
Ripple and noise	20MHz BM, full load	120mVp-p max.
Isolation voltage (<1mA/min)	Input to output	1500Vdc
Isolation resistance	500Vdc	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
CTRL*	Turn on	Hang or connect high level(2.5-50Vdc)
	Turn off	Connect -Vin or low level(0-1.0Vdc)
	Shut off input current	10mA typ.
Relative humidity	---	5%-95% max.
MTBF	Bellcore TR-332, 25°C	1000KHrs
Weight	---	15g

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.

DMV-10 SERIES, 10WATT, 2:1 INPUT RANGE

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

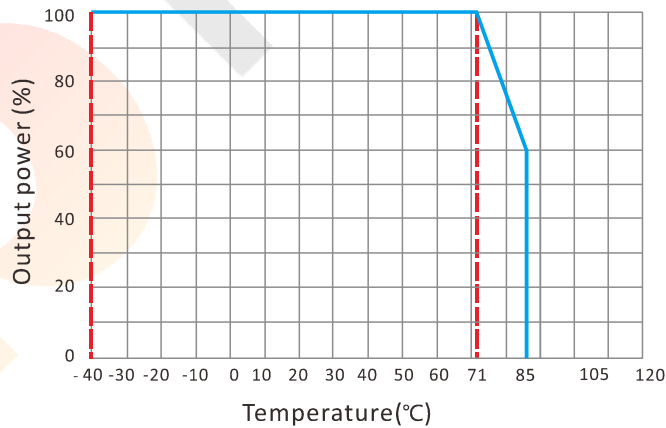
CONNECTION - "CTRL"

1	GND	GND
2	+Vin	+Vin
3	+Vo	+Vo
4	No Pin	0V
5	0V	-Vo
6	CTRL	CTRL

Note:

* Unit is mm(inch).

ELECTRICAL CURVE

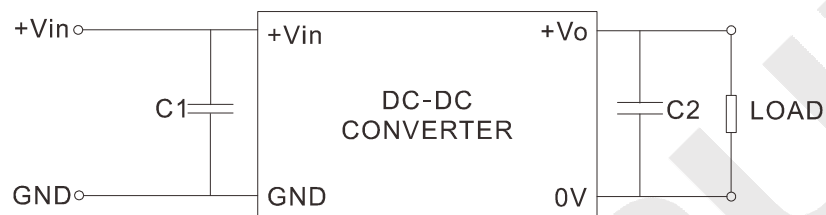


DMV-10 SERIES, 10WATT, 2:1 INPUT RANGE

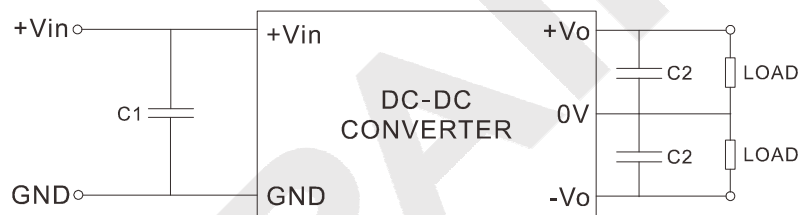
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



CAPACITOR SELECTION

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