

## DNV-5 SERIES, 5WATT, 2:1 INPUT RANGE

### FEATURES:

- ✓ 1500Vdc isolation voltage
- ✓ Metal/Plastic 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.
DNV5-0511	5(4.5~9)	5	1000	74%
DNV5-0515		9	555	77%
DNV5-0512		12	410	82%
DNV5-0513		15	330	79%
DNV5-0514		24	210	79%
DNV5-0521		±5	500	74%
DNV5-0525		±9	278	78%
DNV5-0522		±12	205	77%
DNV5-0523		±15	165	81%
DNV5-0524		±24	100	81%
DNV5-1211		12(9~18)	5	1000
DNV5-1215	9		555	80%
DNV5-1212	12		410	81%
DNV5-1213	15		330	81%
DNV5-1214	24		210	81%
DNV5-1221	±5		500	79%
DNV5-1225	±9		278	81%
DNV5-1222	±12		205	81%
DNV5-1223	±15		165	82%
DNV5-1224	±24		100	83%
DNV5-2411	24(18~36)	5	1000	79%
DNV5-2415		9	555	80%
DNV5-2412		12	410	81%
DNV5-2413		15	330	81%
DNV5-2414		24	210	83%
DNV5-2421		±5	500	79%
DNV5-2425		±9	278	80%
DNV5-2422		±12	205	81%

**DNV-5 SERIES, 5WATT, 2:1 INPUT RANGE**

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
<b>DNV5-2423</b>	24(18~36)	±15	165	82%
<b>DNV5-2424</b>		±24	100	83%
<b>DNV5-4811</b>	48(36~72)	5	1000	81%
<b>DNV5-4815</b>		9	555	81%
<b>DNV5-4812</b>		12	410	81%
<b>DNV5-4813</b>		15	330	83%
<b>DNV5-4814</b>		24	210	84%
<b>DNV5-4821</b>		±5	500	79%
<b>DNV5-4825</b>		±9	278	80%
<b>DNV5-4822</b>		±12	205	81%
<b>DNV5-4823</b>		±15	165	82%
<b>DNV5-4824</b>		±24	100	82%

Notes: other input and output models may available on request.

Above models are default to plastic case, you may request for the models with metal case, plus "M" in the suffix.

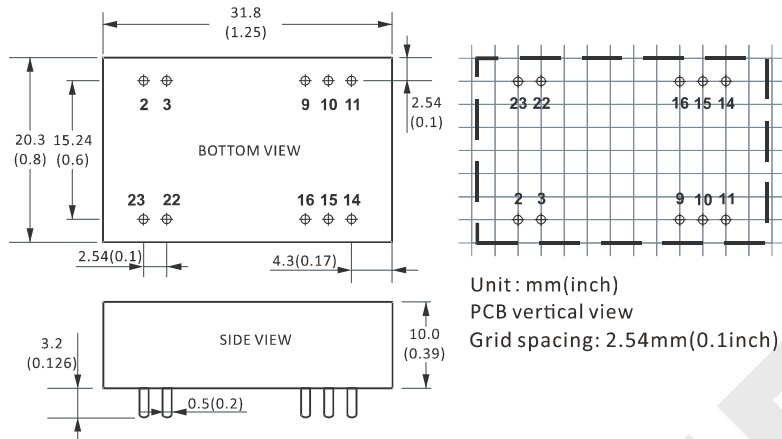
**ELECTRICAL**

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	±2% max.
Ripple and noise	20MHz BM, full load	100mVp-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%
MTBF	Bellcore TR-332, 25°C	1000KHrs
Weight	---	18g

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.

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### MECHANICAL



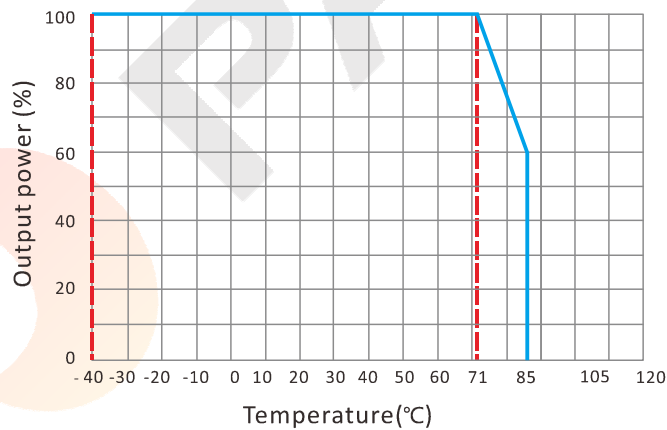
### CONNECTION

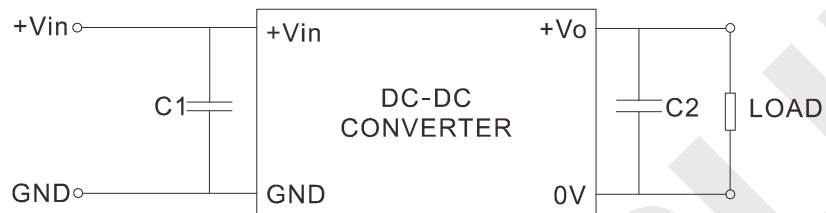
PIN #	SINGLE	DUAL
2	GND	GND
3	GND	GND
9	NC	0V
10	No Pin	No Pin
11	NC	-Vo2
14	+Vo	+Vo1
15	No Pin	No Pin
16	0V	0V
22	+Vin	+Vin
23	+Vin	+Vin

Note:

\* Unit is mm(inch).

### ELECTRICAL CURVE



**DNV-5 SERIES, 5WATT, 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
5VDC	100 $\mu$ F	5VDC	470 $\mu$ F	$\pm$ 5VDC	220 $\mu$ F
12VDC	47 $\mu$ F	9VDC	220 $\mu$ F	$\pm$ 9VDC	100 $\mu$ F
24VDC	47 $\mu$ F	12VDC	100 $\mu$ F	$\pm$ 12VDC	47 $\mu$ F
48VDC	10 $\mu$ F	15VDC	100 $\mu$ F	$\pm$ 15VDC	47 $\mu$ F
--	--	24VDC	47 $\mu$ F	$\pm$ 24VDC	22 $\mu$ F