

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

- ✓ 3000Vdc 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.
DNV5-0511F	5(4.5~9)	5	1000	74%
DNV5-0515F		9	555	77%
DNV5-0512F		12	410	82%
DNV5-0513F		15	330	79%
DNV5-0514F		24	210	79%
DNV5-0521F		±5	500	74%
DNV5-0525F		±9	278	78%
DNV5-0522F		±12	205	77%
DNV5-0523F		±15	165	81%
DNV5-0524F		±24	100	81%
DNV5-1211F	12(9~18)	5	1000	78%
DNV5-1215F		9	555	80%
DNV5-1212F		12	410	81%
DNV5-1213F		15	330	81%
DNV5-1214F		24	210	81%
DNV5-1221F		±5	500	79%
DNV5-1225F		±9	278	81%
DNV5-1222F		±12	205	81%
DNV5-1223F		±15	165	82%
DNV5-1224F		±24	100	83%
DNV5-2411F	24(18~36)	5	1000	79%
DNV5-2415F		9	555	80%
DNV5-2412F		12	410	81%
DNV5-2413F		15	330	81%
DNV5-2414F		24	210	83%
DNV5-2421F		±5	500	79%
DNV5-2425F		±9	278	80%
DNV5-2422F		±12	205	81%

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

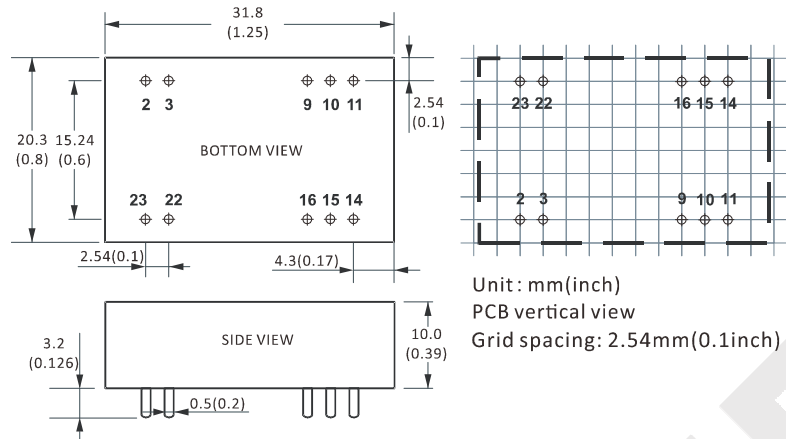
Notes: other input and output models may available on request.

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	3000Vdc
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

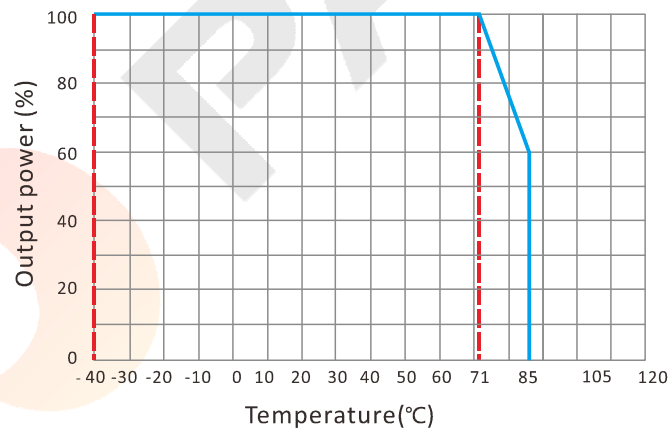
Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

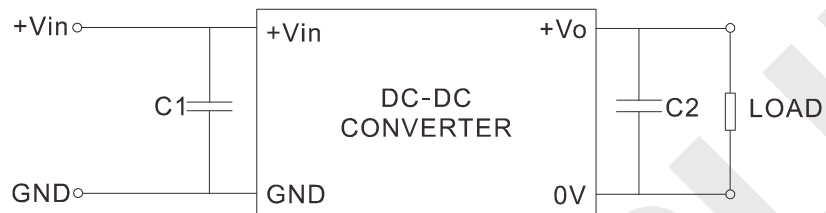
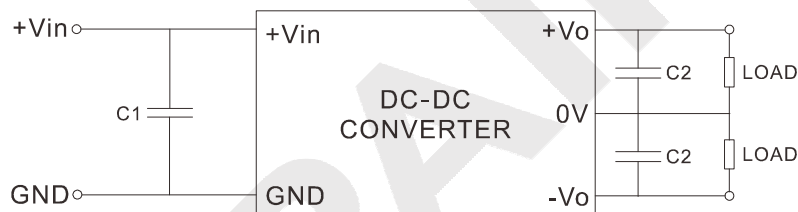
**DNV-5F SERIES, 5WATT, 2:1 INPUT RANGE**
**MECHANICAL**

**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-5F 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