

DNV-3F SERIES, 3WATT, 2:1 INPUT RANGE
FEATURES:

- ✓ 3000Vdc isolation voltage
- ✓ Metal/Plastic case with low ripple and noise
- ✓ Continuous short circuit protection
- ✓ Operating temperature range -40°C to +85°C
- ✓ 3 year warranty



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DNV3-0511F	5(4.5~9)	5	600	74%
DNV3-0515F		9	333	80%
DNV3-0512F		12	250	78%
DNV3-0513F		15	200	78%
DNV3-0514F		24	125	78%
DNV3-0521F		±5	300	76%
DNV3-0525F		±9	167	80%
DNV3-0522F		±12	125	78%
DNV3-0523F		±15	100	78%
DNV3-0524F		±24	60	78%
DNV3-1211F		12(9~18)	5	600
DNV3-1215F	9		333	80%
DNV3-1212F	12		250	82%
DNV3-1213F	15		100	82%
DNV3-1214F	24		125	82%
DNV3-1221F	±5		300	80%
DNV3-1225F	±9		167	80%
DNV3-1222F	±12		125	82%
DNV3-1223F	±15		100	82%
DNV3-1224F	±24		60	82%
DNV3-2411F	24(18~36)		5	600
DNV3-2415F		9	333	80%
DNV3-2412F		12	250	86%
DNV3-2413F		15	200	86%
DNV3-2414F		24	125	86%
DNV3-2421F		±5	300	80%
DNV3-2425F		±9	167	80%
DNV3-2422F		±12	125	82%
DNV3-2423F		±15	100	82%
DNV3-2424F		±24	60	82%

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Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DNV3-4811F	48(36~72)	5	600	80%
DNV3-4815F		9	333	80%
DNV3-4812F		12	250	86%
DNV3-4813F		15	200	86%
DNV3-4814F		24	125	86%
DNV3-4821F	48(36~72)	±5	300	80%
DNV3-4825F		±9	167	80%
DNV3-4822F		±12	125	82%
DNV3-4823F		±15	100	82%
DNV3-4824F		±24	60	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.

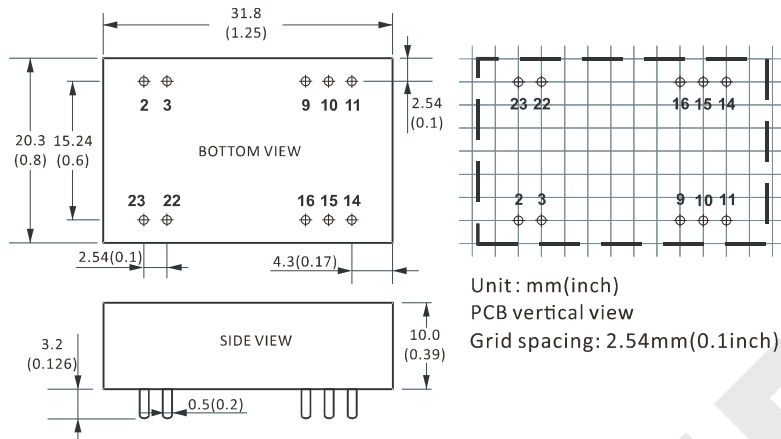
ELECTRICAL

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	100KHz 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.

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MECHANICAL



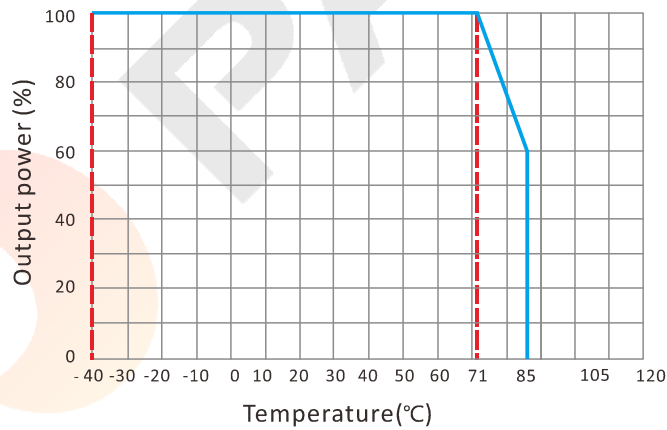
CONNECTION

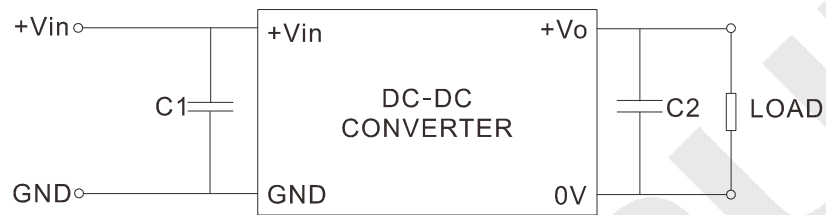
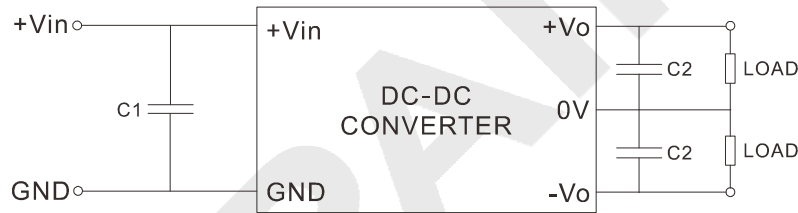
PIN #	SINGLE	DUAL
2	GND	GND
3	GND	GND
9	NC	0V
10	No Pin	No Pin
11	NC	-Vo2
14	+Vo	+Vo1
15	No Pin	No Pin
16	0V	0V
22	+Vin	+Vin
23	+Vin	+Vin

Note:

* Unit is mm(inch).

ELECTRICAL CURVE



DNV-3F SERIES, 3WATT, 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 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