

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.	
DNV5-0510	5(4.5~9)	3.3	1200	72%	
DNV5-0511		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%	
DNV5-1210		12(9~18)	3.3	1200	72%
DNV5-1211			5	1000	78%
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%	
DNV5-2410	24(18~36)		3.3	1200	72%
DNV5-2411			5	1000	79%
DNV5-2415			9	555	80%
DNV5-2412		12	410	81%	
DNV5-2413		15	330	81%	
DNV5-2414		24	210	83%	

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Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DNV5-2421	24(18~36)	±5	500	79%
DNV5-2425		±9	278	80%
DNV5-2422		±12	205	81%
DNV5-2423		±15	165	82%
DNV5-2424		±24	100	83%
DNV5-4811	48(36~72)	5	1000	81%
DNV5-4815		9	555	81%
DNV5-4812		12	410	81%
DNV5-4813		15	330	83%
DNV5-4814		24	210	84%
DNV5-4821		±5	500	79%
DNV5-4825		±9	278	80%
DNV5-4822		±12	205	81%
DNV5-4823		±15	165	82%
DNV5-4824		±24	100	82%

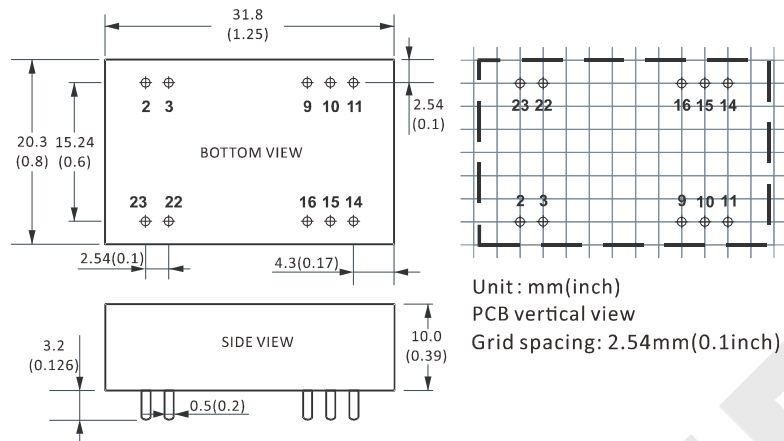
Notes: other input and output models may available on request.

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

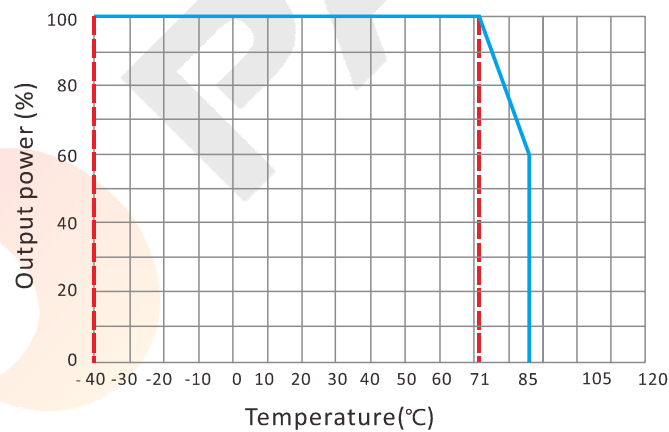
Notes: All the parameters are measured at 25°C ambient temperature, humidity < 75%, nominal input voltage, full load and after warm-up, unless otherwise specified.

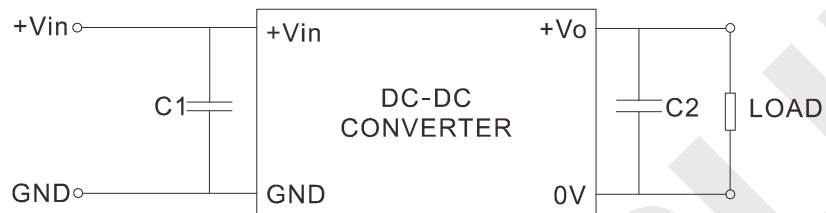
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MECHANICAL

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 μ F	5VDC	470 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