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

FEATURES:

- ✓ **3 years warranty**
- ✓ **1500Vdc isolation voltage**
- ✓ **Metal/Plastic case with low ripple and noise**
- ✓ **Operating temperature range -40°C to +85°C**
- ✓ **Short circuit and input under voltage protection**

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DNV5-1211	12(9~18)	5	1000	82%
DNV5-1212		12	410	82%
DNV5-1213		15	330	82%
DNV5-1214		24	210	82%
DNV5-1221		±5	500	82%
DNV5-1222		±12	205	82%
DNV5-1223		±15	165	82%
DNV5-1224		±24	100	82%
DNV5-2411	24(18~36)	5	1000	82%
DNV5-2412		12	410	82%
DNV5-2413		15	330	82%
DNV5-2414		24	210	82%
DNV5-2421		±5	500	82%
DNV5-2422		±12	205	82%
DNV5-2423		±15	165	82%
DNV5-2424		±24	100	82%
DNV5-4811	48(36~72)	5	1000	82%
DNV5-4812		12	410	82%
DNV5-4813		15	330	82%
DNV5-4814		24	210	82%
DNV5-4821		±5	500	82%
DNV5-4822		±12	205	82%
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.

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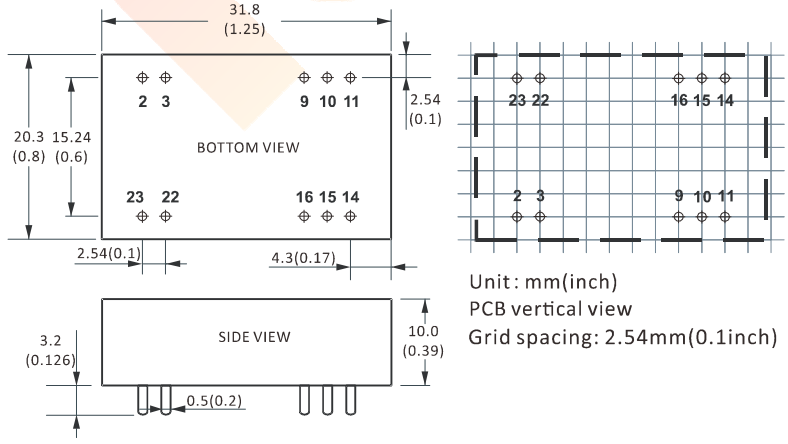
ELECTRICAL

Output voltage accuracy	---	Vo1, Vo2 : ±1.0%, ±3.0%
Line regulation	Nominal Load, full voltage	Vo1, Vo2 : ±0.2%, ±1.5%
Load regulation	20% ~ 100% full load	Vo1, Vo2 : ±0.5%, ±4.0%
Dynamic response (transient/recovery time)	5%-50%-75% load capability	ΔVo1/Δt : ±4.0%/500μs
Ripple and noise	20MHz BM, full load	Vo≤5.0V, ≤50mVp-p Vo≥48V, ≤180mVp-p Other, ≤100mVp-p
Operating frequency	Typical value	300KHz typ./330KHz max.
Turn-on delay time	Typical value	≤200ms
Isolation voltage (<0.5mA/min)	Input to output Input to case	1500Vdc 500Vdc
Efficiency	Nominal input, full load	Vo≤5.0V,80% typ. Vo>5.0V,82% typ.
Operating temperature range	---	-40°C to +85°C
Storage temperature range	---	-55°C to +120°C
Short circuit protection	---	Auto-recovery
Input under voltage protection	When input voltage is lower than the low terminal input voltage	Auto-recovery
Relative humidity	---	10%-90%
MTBF	Bellcore TR-332, 25°C	2x10^{5}Hrs

Notes: Unless otherwise specified, all the parameters of the test conditions are as follows: ambient temperature 25℃, the nominal input voltage, pure resistive nominal load.

MECHANICAL



CONNECTION

PIN #	SINGLE	DUAL	ISOLATED TWIN
2	-Vin	-Vin	-Vin
3	-Vin	-Vin	-Vin
9	NC	COM	GND2
10	No Pin	No Pin	No Pin
11	NC	-Vo2	+Vo2
14	+Vo	+Vo1	+Vo1
15	No Pin	No Pin	No Pin
16	GND	COM	GND1
22	+Vin	+Vin	+Vin
23	+Vin	+Vin	+Vin

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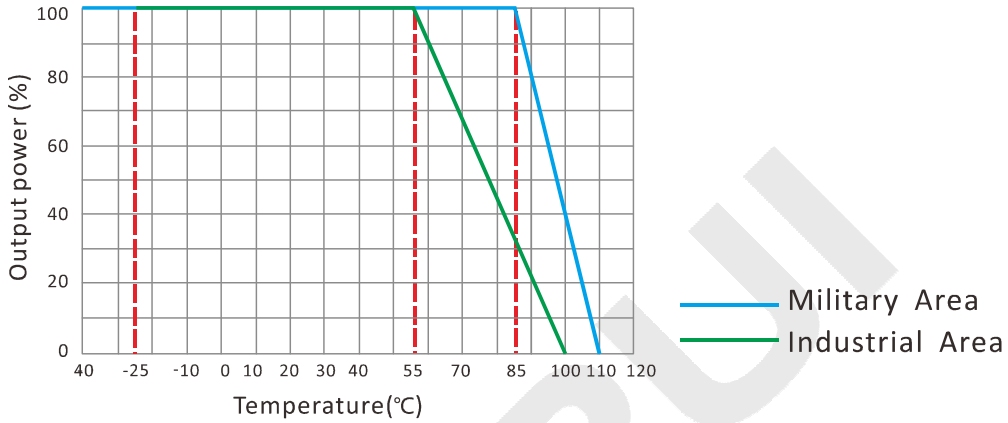
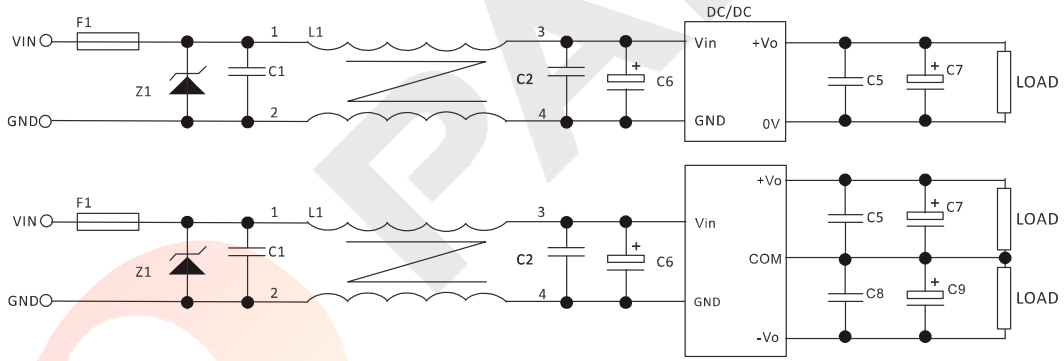
TEMPERATURE PROFILE



NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



FUSE: depends on the actual input current;

TVS: depends on the actual input voltage;

Recommended capacitor: C1,C2,C5,C8, about 0.1uF; C6: 22uF-100uF; C7, C9: 10uF/10mA.