DNV-6 SERIES, 6WATT, 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℃ to +85℃**
- ✓ **3 year warranty**

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DNV6-0510	5(4.5~9)	3.3	1200	72%
DNV6-0511		5	1200	75%
DNV6-0515		9	667	78%
DNV6-0512		12	500	83%
DNV6-0513		15	400	80%
DNV6-0514		24	250	80%
DNV6-0521		±5	600	75%
DNV6-0525		±9	333	79%
DNV6-0522		±12	250	78%
DNV6-0523		±15	200	82%
DNV6-0524		±24	125	82%
DNV6-1210	12(9~18)	3.3	1200	72%
DNV6-1211		5	1200	79%
DNV6-1215		9	667	81%
DNV6-1212		12	500	82%
DNV6-1213		15	400	82%
DNV6-1214		24	250	82%
DNV6-1221		±5	600	80%
DNV6-1225		±9	333	82%
DNV6-1222		±12	250	82%
DNV6-1223		±15	200	83%
DNV6-1224		±24	125	84%
DNV6-2410	24(18~36)	3.3	1200	72%
DNV6-2411		5	1200	80%
DNV6-2415		9	667	81%
DNV6-2412		12	500	82%
DNV6-2413		15	400	82%
DNV6-2414		24	250	84%
DNV6-2421		±5	600	80%
DNV6-2425		±9	333	81%

DNV-6 SERIES, 6WATT, 2:1 INPUT RANGE

Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DNV6-2422	24(18~36)	±12	250	82%
DNV6-2423		±15	200	83%
DNV6-2424		±24	125	84%
DNV6-4811	48(36~72)	5	1200	82%
DNV6-4815		9	667	82%
DNV6-4812		12	500	82%
DNV6-4813		15	400	84%
DNV6-4814		24	250	85%
DNV6-4821		±5	600	80%
DNV6-4825		±9	333	81%
DNV6-4822		±12	250	82%
DNV6-4823		±15	200	83%
DNV6-4824		±24	125	83%

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.

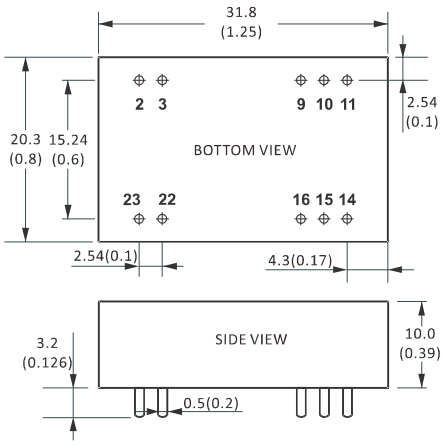
ELECTRICAL

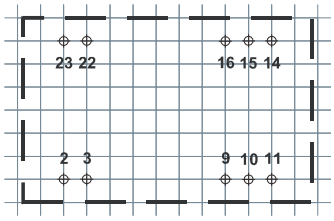
Output voltage accuracy	+Vo	±2% max.
(Full voltage, full load)	-Vo	±3% max.
Line regulation	Nominal Load, full voltage	±0.5% max.
Load regulation	20% ~ 100% full load	±1% max.
Ripple and noise	20MHz BM, full load	100mVp-p max.
Operating frequency	Typical value	300KHz typ.
Isolation voltage (<1mA/min)	Input to output	1500Vdc
Isolation resistance	---	1000mΩ
Temperature coefficient	---	±0.03%/℃ max.
Operating temperature range	---	-40℃ to +85℃
Storage temperature range	---	-55℃ to +125℃
Short circuit protection	---	Continuous, auto-recovery
Relative humidity	---	10%-90%
MTBF	Bellcore TR-332, 25℃	1000KHrs
Weight	---	18g

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

DNV-6 SERIES, 6WATT, 2:1 INPUT RANGE

MECHANICAL





Unit: mm(inch)
PCB vertical view
Grid spacing: 2.54mm(0.1inch)

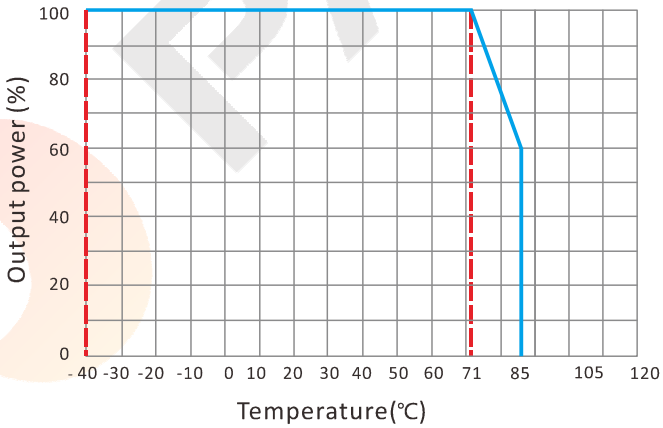
CONNECTION

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

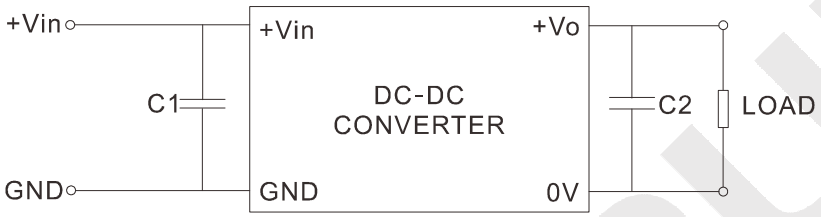


DNV-6 SERIES, 6WATT, 2:1 INPUT RANGE

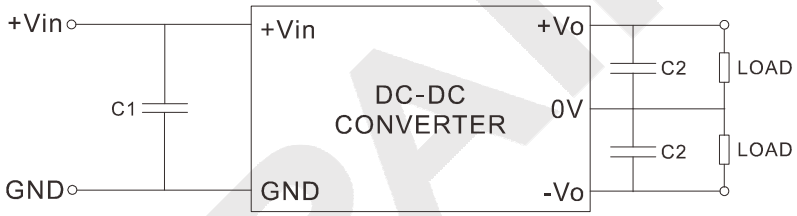
NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT

SINGLE OUTPUT



DUAL OUTPUT



CAPACITOR SELECTION

INPUT VOLTAGE	C1	SINGLE OUTPUT	C2	DUAL OUTPUT	C2
5VDC	100μF	5VDC	470μF	±5VDC	220μF
12VDC	47μF	9VDC	220μF	±9VDC	100μF
24VDC	47μF	12VDC	100μF	±12VDC	47μF
48VDC	10μF	15VDC	100μF	±15VDC	47μF
--	--	24VDC	47μF	±24VDC	22μF