

FEATURES:

- ✓ 3 years warranty
- √ 1500Vac isolation voltage
- ✓ Six-side shielded metal case with low ripple and noise
- ✓ Operating temperature range -40°C to +85°C
- ✓ Over voltage, over current, short circuit protection



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (mA)	Efficiency Typ.
DNV10-1211		3.3	3000	85%
DNV10-1212		5.1	2000	87%
DNV10-1213	12(9~18)	12.1	800	87%
DNV10-1214		15.1	700	89%
DNV10-1215		24.2	400	89%
DNV10-2411		3.3	3000	87%
DNV10-2412	24(18~36)	5.1	2000	88%
DNV10-2413		12.1	800	89%
DNV10-2414		15.1	700	90%
DNV10-2415		24.2	400	90%
DNV10-4811		3.3	3000	87%
DNV10-4812		5.1	2000	89%
DNV10-4813	48(36~72)	12.1	800	89%
DNV10-4814		15.1	700	90%
DNV10-4815		24.2	400	90%
DNV10-1101 <mark>1</mark>		5.1	2000	89%
DNV10-110 <mark>12</mark>	110(66~160)	12.1	800	89%
DNV10-11013	110(00 100)	15.1	700	90%
DNV10-11014		24.2	400	90%

Notes:

1.Other input and output models may available on request;

2. You may request for the models with heatsink, plus "R" in the suffix, e.g. DNV10-1211R.

ELECTRICAL			
Output voltage accuracy		≤1%	
Line regulation	Nominal Load, full voltage	±0.2% max.	
Load regulation	20% ~ 100% rated load	±0.5% max.	
Dynamic response	5%-50%-75% load capability	A\/o/A+: +E 0%/E00us	
(transient/recovery time)	3%-30%-73% IOAU CAPABIIITY	ΔVo/Δt: ±5.0%/500μs	



ELECTRICAL		
Ripple and noise	20MHz BM, full load	1% Vout max.
landation college	Input to output	1500Vac
Isolation voltage (<2mA/min)	Input to case	1000Vac
(\ZIIIA) IIIII)	Output to case	500Vac
Isolation resistance	500Vdc	20ΜΩ
Temperature coefficient		±0.02%/°C max.
Operating temperature range	Auxiliary heat sink	-40°C to +85°C
Storage temperature range		-45°C to +120°C
Over current protection		Auto-recovery
Short circuit protection		Continuous auto-recovery
Over voltage protection		Auto-recovery
Relative humidity		10%-90% max.
Weight		20g
Conducted emission		CLASS A
MTBF	Bellcore TR-332, 25°C	2x10⁵Hrs

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

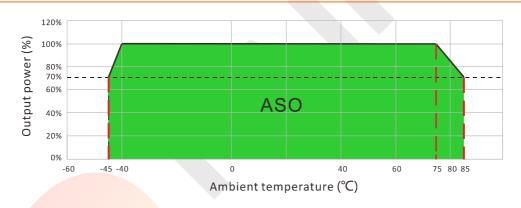
MECHANICAL

WITHOUT HEATSINK WITH HEATSINK 25.4 10.16 (1.0) 2.54 2.54 10.16 10.16 (0.1)(0.1)(0.4)(0.4)(0.4)(0.4) 3 ⊕ 3 ↔ 10.16 10.16 (0.4)(0.4)10.16 10.16 (0.4)(0.4)**+1 #1** 25.4 25.4 BOTTOM VIEW 4⊕ BOTTOM VIEW 4+ (1.0)(1.0)**⊕**2 Φ2 10.16 10.16 5.08 5.08 (0.4)(0.4)(0.2)(0.2) 5 ⊕ 5 ↔ 10.0 (0.39)11.2 10.16 SIDE VIEW (0.44)(0.4)10.16 11.2 SIDE VIEW 6.35 (0.4)(0.44)1.0(0.039) (0.25)6.35 1.0(0.039) (0.25)



MECHANICAL				
	PCB LAYOUT	CONNE	CONNECTION	
		PIN#	SINGLE	
		1	+Vin	
		2	-Vin	
	1 0 2	3	+Vo	
	401	4	No Pin	
	Unit: mm(inch)	5	GND	
	PCB vertical view	Note:		
	Grid spacing: 2.54mm(0.1inch)	* Unit is	mm(inch).	

TEMPERATURE PROFILE



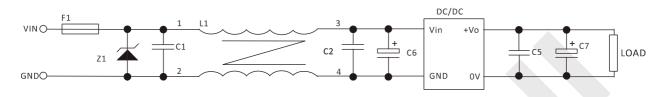
CAPACITIVE LOADS SELECTION

Vout: 3.3V 5V		Vout: 12	Vout: 12V 5V		Vout: 24V	
Recommen <mark>ded</mark>	MAX.	Recommended	MAX.	Recommended	MAX.	
value	value	value	value	value	value	
10000μF	1500 0μF	1000μF	2200μF	470μF	1000μF	



NOTES

RECOMMENDED TEST AND APPLICATION CIRCUIT



- 1. TVS&FUSE will be helpful with over voltage protection and inrush limiting. Recommended FUSE should better be 1.5~2times of the rated current;
- 2. The input filter capacitor C6 could select the aluminum electrolytic capacitors or tantalum capacitors, and the withstand voltage should be greater than the highest input voltage. Recommended capacitor should be between $22\mu F^{\sim}100\mu F$;
- 3. C1,C2 for the input filter capacitor, $0.1^{\sim}1\mu\text{F}$ high-frequency ceramics capacitor or chip capacitor are recommended. The withstand voltage of output filter C5, C7 should be greater than the highest output voltage. Recommended capacitor of C7 should within $100\mu\text{F}$ and C5 connected with the chip to reduce the input voltage peak, recommended $0.1^{\sim}1\mu\text{F}$ high-frequency ceramics capacitor or chip capacitor.

