

#### 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.
DNV15-1211		3.3	4000	85%
DNV15-1212		5.1	3000	87%
DNV15-1213	12(9~18)	12.1	1200	87%
DNV15-1214		15.1	1000	89%
DNV15-1215		24.2	800	89%
DNV15-2411		3.3	4000	87%
DNV15-2412		5.1	3000	89%
DNV15-2413	24(18~36)	12.1	1200	89%
DNV15-2414		15.1	1000	90%
DNV15-2415		24.2	800	90%
DNV15-4811		3.3	4000	87%
DNV15-4812		5.1	3000	89%
DNV15-4813	48(36~72)	12.1	1200	89%
DNV15-4814		15.1	1000	90%
DNV15-481 <mark>5</mark>		24.2	800	90%
DNV15-110 <mark>11</mark>		5.1	3000	89%
DNV15-110 <mark>12</mark>	110(66~160)	12.1	1200	89%
DNV15-11013	110(00,-100)	15.1	1000	90%
DNV15-11014		24.2	800	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. DNV15-1211R.

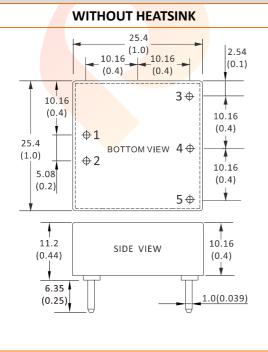
ELECTRICAL		
Output voltage accuracy		≤1%
Line regulation	Nominal Load, full voltage	±0.2% max.
Load regulation	20% ~ 100% rated load	±0.5% max.



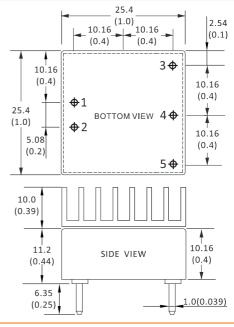
ELECTRICAL			
Dynamic response (transient/recovery time)	5%-50%-75% load capability	ΔVo/Δt: ±5.0%/500μs	
Ripple and noise	20MHz BM, full load	1% Vout max.	
	Input to output	1500Vac	
Isolation voltage (<2mA/min)	Input to case	1000Vac	
(~21174) 11111)	Output to case	500Vac	
Isolation resistance	500Vdc	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	Heat sink	30g	
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℃, the nominal input voltage, pure resistive nominal load.

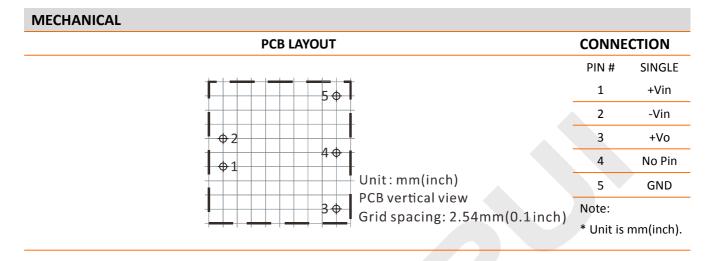
# MECHANICAL



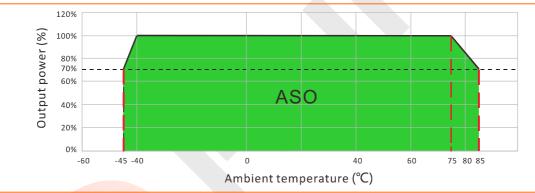
#### WITH HEATSINK







**TEMPERATURE PROFILE** 



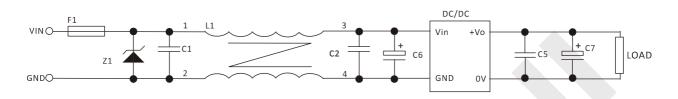
#### CAPACITIVE LOADS SELECTION

Vout: 3.3V 5V		Vout: 12	Vout: 12V 5V		Vout: 24V	
Recommended	MAX.	Recommended	MAX.	Recommended	MAX.	
value	value	value	value	value	value	
10000µF	15000µF	1000µF	2200µF	470µF	1000µF	



### NOTES

#### **RECOMMENDED TEST AND APPLICATION CIRCUIT**



1, TVS&FUSE be helpful with over voltage protection and inrush limiting. Recommended FUSE 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~100 $\mu$ F.

3, C1,C2 for the input filter capacitor, $0.1^{-1}\mu$ 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 better within 100 $\mu$ F and C5 connected with the chip to reduce the input voltage peak, recommended  $0.1^{-1}\mu$ F high-frequency ceramics capacitor or chip capacitor.