

### 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
- ✓ Remote on/off
- ✓ Adjustable output voltage



Model	Input voltage (Vdc)	Output voltage (Vdc)	Output current (A)	Efficiency Typ.
DNV30-1211		3.3	8	83%
DNV30-1212		5.1	6	84%
DNV30-1213	12(9~18)	12.1	2.5	85%
DNV30-1214		15.1	2	85%
DNV30-1215		24.2	1.25	85%
DNV30-2411		3.3	8	85%
DNV30-2412		5.1	6	88%
DNV30-2413	24(18~36)	12.1	2.5	88%
DNV30-2414		15.1	2	87%
DNV30-2415		24.2	1.25	87%
DNV30-4811		3.3	8	85%
DNV30-4812		5.1	6	88%
DNV30-4813	48(36~72)	12.1	2.5	88%
DNV30-4814		15.1	2	87%
DNV30-4815		24.2	1.25	87%
DNV30-110 <mark>11</mark>		5.1	6	88%
DNV30-110 <mark>12</mark>	110(66~160)	12.1	2.5	88%
DNV30-11013	110(00 100)	15.1	2	87%
DNV30-11014		24.2	1.25	87%

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. DNV30-1211R.



ELECTRICAL			
	12V	9-18Vde	
Input voltago rango	24V	18-36Vd	
Input voltage range	48V	36- <b>7</b> 2Vd	
	110V	60-166Vd	
Remote control	REM left open	Output or	
	REM connect with -Vin	Output of	
Input under voltage protection	When input voltage is lower than the	Auto-recover	
	low terminal input voltage		
Output voltage accuracy		≤19	
Output voltage adjustable		±10% max	
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	ΔVo/Δt: ±5.0%/200μ	
(transient/recovery time)			
Ripple and noise	20MHz BM, full load	1% Vout max	
Isolation voltage	Input to output	1500Va	
(<2mA/min)	Input to case	1500Va	
(	Output to case	500Va	
Isolation resistance	500Vdc	100MG	
Temperature coefficient		±0.02%/°C max	
Operating temperature range	Auxiliary heat sink	-40°C to +85°(	
Storage temperature range		-45°C to +120°	
Over current protection		Auto-recover	
Short circuit protection		Continuous auto-recover	
Over voltage protection		Auto-recover	
Cooling method	30W need external heatsink	Cooling by air convectio	
Relative humidity		10%-90% max	
Weight		60	
MTBF	Bellcore TR-332, 25°C	2x10⁵Hr	

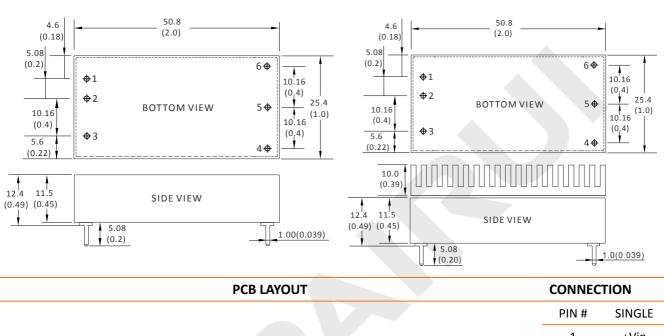
Notes: Unless otherwise specified, all the parameters of the test conditions are as follows: ambient temperature 25℃, the nominal input voltage, pure resistive nominal load.



#### MECHANICAL

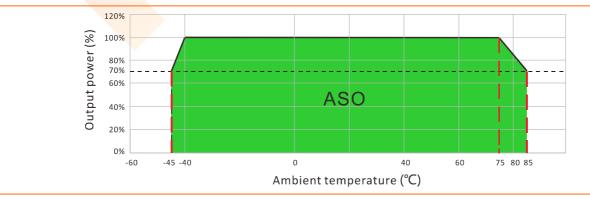


WITH HEATSINK



		Ι ΠΝ Π	JINGLL
		1	+Vin
• 3	4 🔶 -	2	-Vin
		3	REM
⊕2	50	4	TRIM
	Unit : mm(inch)	5	GND
	PCB vertical view Grid spacing: 2.54mm(0.1inch)	6	+Vo
		Note:	
		* Unit is r	nm(inch).

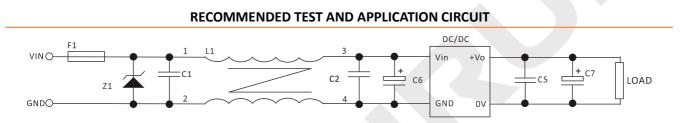
**TEMPERATURE PROFILE** 





CAPACITIVE LOADS SELECTION								
Vout:3.3V 5V		Vout:12V 5V		Vout:24V				
Recommended	MAX.	Recommended	MAX.	Recommended	MAX.			
value	value	value	value	value	value			
10000µF	15000µF	3000µF	6000µF	2000µF	3000µF			

#### NOTES



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 $\sim$ 100 $\mu$ F.

3. C1,C2 for the input filter capacitor,0.1~1µF 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 100µF and C5 connected with the chip to reduce the input voltage peak, recommended 0.1~1µF high-frequency ceramics capacitor or chip capacitor.