

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	Output voltage	Output current	Efficiency
Wiodei	(Vdc)	(Vdc)	(A)	Тур.
DNV50-1211		5.1	10	89%
DNV50-1212	12(9~18)	12.1	4.2	89%
DNV50-1213		15.1	3.3	89%
DNV50-2411		3.3	10	88%
DNV50-2412	24(18~36)	12.1	4.2	89%
DNV50-2413		15.1	3.3	89%
DNV50-2414		24.2	2	89%
DNV50-2415		48.2	1	87%
DNV50-4811		5.1	10	88%
DNV50-4812	48(36~72)	12.1	4.2	89%
DNV50-4813		15.1	3.3	89%
DNV50-4814		24.2	2	89%
DNV50-4815		48.2	1	89%
DNV50-11011		5.1	10	89%
DNV50-1101 <mark>2</mark>	110(66~160)	12.1	4.2	89%
DNV50-110 <mark>13</mark>	110(00 100)	15.1	3.3	89%
DNV50-110 <mark>14</mark>		24.2	2	89%

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. DNV50-1211R.

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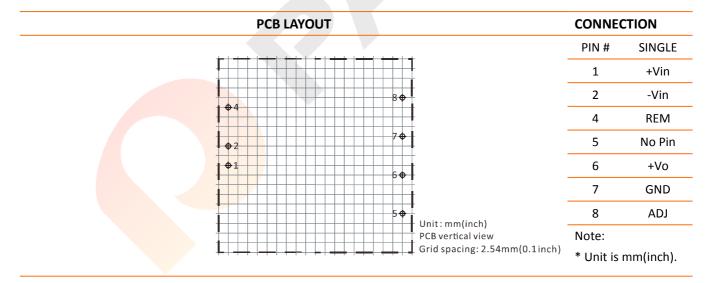
ELECTRICAL			
	12V	9-18Vdc	
Input voltago rango	24V	18-36Vdc	
Input voltage range	48V	36-72Vdc	
	110V	60-166Vdd	
Remote control	REM left open	Output on	
Remote control	REM connect with -Vin	Output off	
Input under voltage protection	When input voltage is lower than the	Auto-recovery	
mpat under voltage protection	low terminal input voltage		
Output voltage accuracy		≤1%	
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%/400μs	
(transient/recovery time)	3/0-30/0-73/0 load capability		
Ripple and noise	20MHz BM, full load	1% Vout max.	
Isolation valtage	Input to output	1500Vac	
Isolation voltage (<2mA/min)	Input to case	1500Vac	
(\ZIIIA/IIIII)	Output to case	500Vac	
Isolation resistance	500Vdc	100ΜΩ	
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	
Cooling method	50W need external heatsink	Cooling by air convection	
Over current protection		Auto-recovery	
Short circuit protection		Continuous auto-recovery	
Over voltage protection		Auto-recovery	
Relative humidity		10%-90% max	
Weight		95g	
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°C, the nominal input voltage, pure resistive nominal load.

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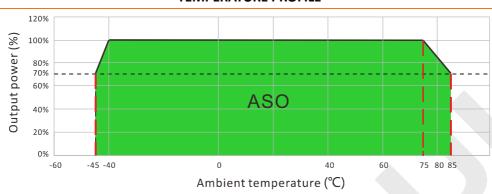
MECHANICAL WITHOUT HEATSINK WITH HEATSINK 50.8 50.8 10.16 10.16 (0.4) (0.4)5.08 5.08 (0.2) (0.2)6₩ 50.8 **\Pi**1 50.8 ф1 (2.0) **BOTTOM VIEW BOTTOM VIEW** (2.0)Ф2 Ф2 7 � 10.16 (0.4) 10.16 7 ♦ 10.16 (0.4) (0.4) 10.16 (0.4)8₽ 8₩ 12.7 12.7 (0.5)(0.5)14.47 13.7 (0.57) (0.54) SIDE VIEW (0.93) 6.6 SIDE VIEW (0.57)(0.54)1.0(0.039) (0.26) 6.6 (0.26) 1.0(0.039)



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TEMPERATURE PROFILE

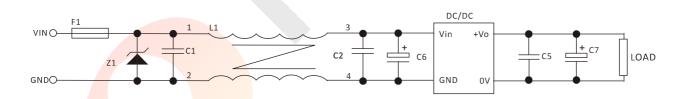


CAPACITIVE LOADS SELECTION

Vout: 3.3V 5V		Vout: 12V 5V		Vout: 24V	
Recommended	MAX. value	Recommended value	MAX.	Recommended	MAX.
value			value	value	value
4700μF	10000μF	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 $22\mu F^{\sim}100\mu F$.
- 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 better within 100 μF 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.

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