

<b>NDDY</b>	<b>RA(B)_MD-30W</b>	<b>30W, WIDE INPUT, ISOLATED &amp; REGULATED DUAL(SINGLE) OUTPUT DC/DC CONVERTER</b>
	<b>PRODUCT SPECIFICATION</b>	

● **FEATURES**

- Size: 50.8mm\*50.8mm\*11.8mm
- International standard pin-out
- Wide input voltage range(2:1)
- Low ripple & noise
- Short circuit protection
- ROHS compliant
- Isolation voltage: 1500VDC
- Operating temperature range:-40℃~+85℃
- 3 years warranty



● **DESCRIPTION**

This is a 30W DC/DC converter specifically designed for applications where input voltage range is large and the space is limited. It is widely used in communications equipment, power system, instrumentation, industrial control, intelligent equipment, and etc.

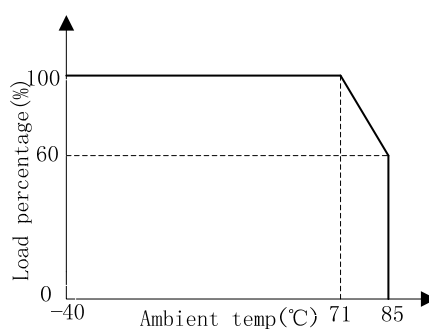
● **PRODUCT LIST**

Product Name	Input Voltage / VDC		Output		EFF/% (TYP.)	Maximum CAP Load/uF
	Normina 1	Range	Voltage /VDC	Current/mA Max./Min.		
RA1205MD-30W	12	9~18	±5	±3.0	80	3000
RA1212MD-30W			±12	±1.25	82	1500
RA1215MD-30W			±15	±1.0	83	1200
RB1205MD-30W	12	9~18	5	6.0	78	6000
RB1212MD-30W			12	2.5	80	3000
RB1215MD-30W			15	2.0	81	1200
RB1224MD-30W			24	1.25	81	1000
RB1248MD-25W			48	0.52	81	1000
RA2405MD-30W	24	18~36	±5	±3.0	81	3000
RA2412MD-30W			±12	±1.25	83	1500
RA2415MD-30W			±15	±1.0	84	1200
RB2405MD-30W	24	18~36	5	6.0	79	6000
RB2412MD-30W			12	2.5	81	3000
RB2415MD-30W			15	2.0	82	1200
RB2424MD-30W			24	1.25	81	1000
RA8405MD-30W	48	36~72	±5	±3.0	82	3000
RA4812MD-30W			±12	±1.25	85	1500
RA4815MD-30W			±15	±1.0	86	1200
RB4805MD-30W	48	36~72	5	6.0	81	6000
RB4812MD-30W			12	2.5	83	3000
RB4815MD-30W			15	2.0	84	1200
RB4824MD-30W			24	1.25	84	1000

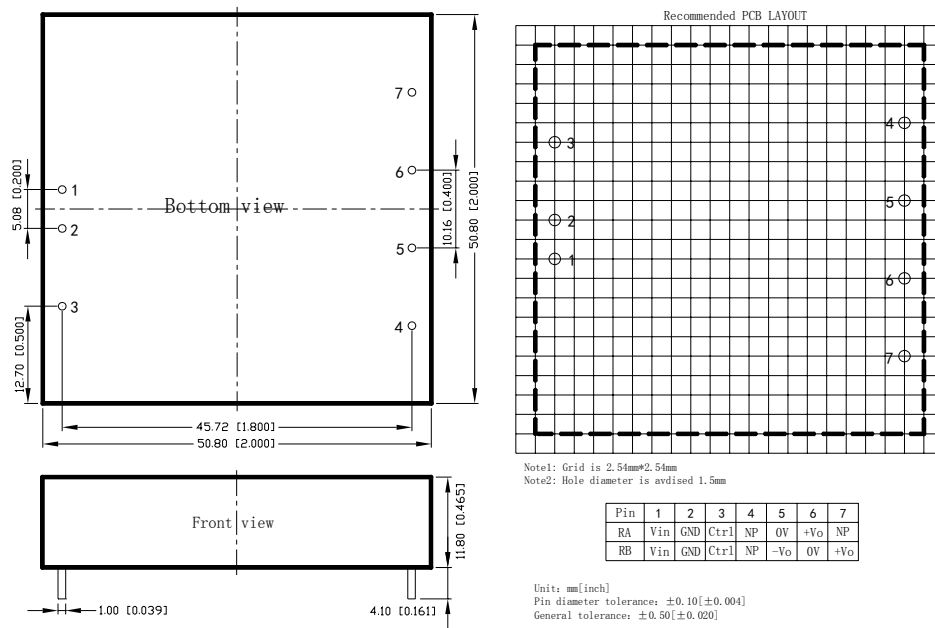
● **PRODUCT PARAMETERS**

Parameter	Conditions / Description	Min	Nom	Max	Unit	
Voltage accuracy	3.3Vo 5Vo	-	±2	±5	%	
	Other output	-	±1	±3	%	
Load regulation	10%~100Io	-	±0.5	±1	%	
Line regulation	100Io, input votagel range	-	±0.2	±0.5	%	
Ripple & Noise	20MHz BW	5Vo	-	50	-	mVp-p
		Other output	-	100	-	
Switching frequency	Nominal input voltage, 100Io	-	200	-	kHz	
SCP	Short circuit protection	Continuous, self-recovery				
Temperature coefficient	Nominal input voltage, 100Io	-	0.02	-	%/°C	
Operating temperature		-40	-	+85	°C	
Storage temperature		-40	-	+125	°C	
Storage humidity	No condensing	-	-	95	%RH	
Cooling method		Natural air cooling				
Insulation voltage		1500	-	-	VDC	
Insulation resistance	Input-output, 500VDC, 25°C, 70%RH	1000	-	-	MOhms	
MTBF	MIL-HDBK-217F@25°C	100	-	-	KHours	
Case material		aluminum				
Weight		-	50	-	g	

● **DERATING CURVE**



## ● DIMENSIONS AND PIN ASSIGNMENT



## ● NOTES

1. Unless otherwise specified, data in this specification is tested with nominal input voltage, rated output load, and  $T_a=25^\circ\text{C}$ , humidity $<75\%RH$ .
2. All data testing methods are based on Guangzhou NengDa company standards.
3. Specification of the product may be subject to change without prior notice.
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