

<b>NDDY</b>	<b>PA(B)_MH-40W</b>	<b>40W, 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(4:1)
- Low ripple & noise
- Short circuit protection
- ROHS compliant
- Isolation voltage: 1500VDC
- Operating temperature range:-40℃~+105℃
- 3 years warranty

● **DESCRIPTION**

This is a 40W 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**

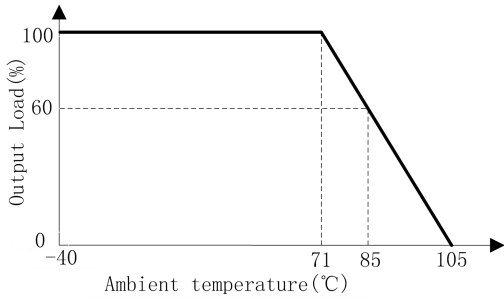
Product Name	Input Voltage / VDC		Output		EFF/% (TYP.)	Maximum CAP Load/uF
	Normal	Range	Voltage /VDC	Current/mA Max./Min.		
PA2412MH-40W	24	9~36	±12	±1670	88	2000
PA2415MH-40W			±15	±1330	88	1500
PB2405MH-35W			5	7000	90	7500
PB2412MH-40W			12	3330	89	3900
PB2415MH-40W			15	2670	89	3000
PA4812MH-40W	48	18~72	±12	±1670	88	2000
PA4815MH-40W			±15	±1330	88	1500
PB4805MH-35W			5	7000	90	7500
PB4812MH-40W			12	3330	89	3900
PB4815MH-40W			15	2670	89	3000

● **PRODUCT PARAMETERS**

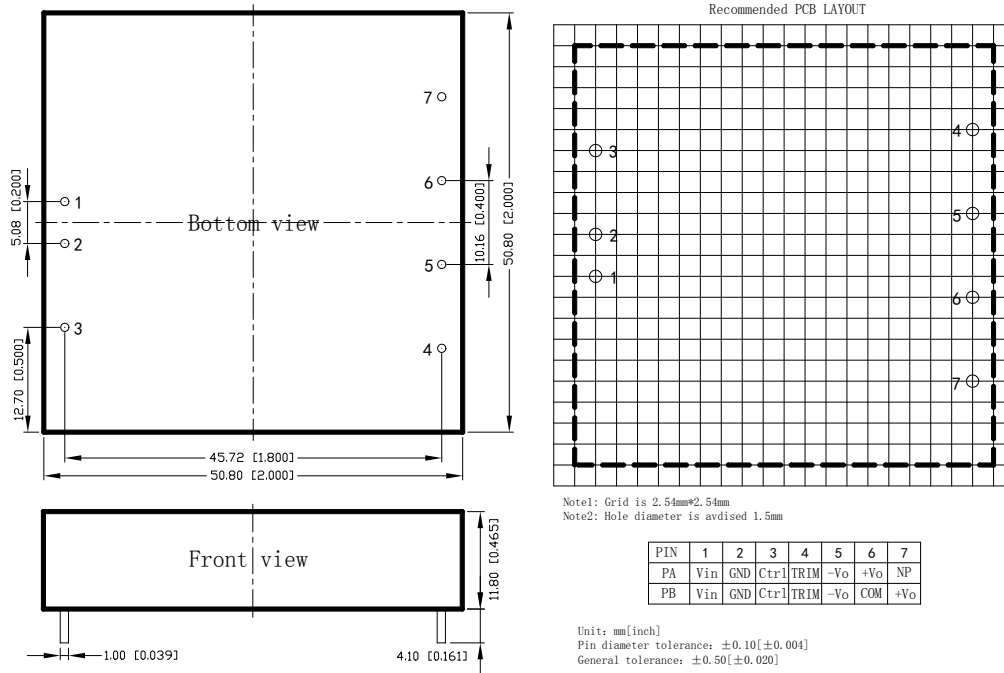
Parameter	Conditions / Description	Min	Nom	Max	Unit
Voltage accuracy	10%-100%Io	-	±1	±3	%
Load regulation	10%-100%Io	-	±0.5	±1	%
Line regulation	100%Io, input votagel range	-	±0.2	±0.5	%
Ripple & Noise	20MHz BW	-	120	-	mVp-p
Switching frequency	Nominal input voltage, 100%Io	-	300	-	kHz
SCP	Short circuit protection	Continuous, self-recovery			
Temperature	Nominal input voltage, 100%Io	-	0.02	-	%/℃

coefficient					
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

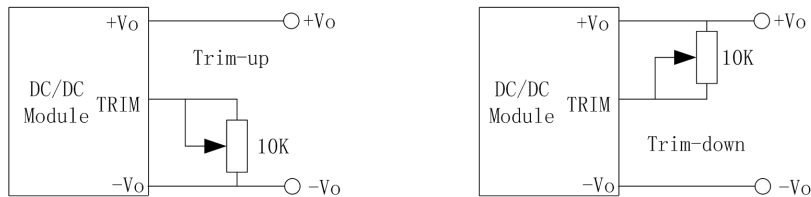


## ● DIMENSIONS AND PIN ASSIGNMENT



## ● SPECIAL PIN DESCRIPTION

1. TRIM is the output voltage trimming pin, with trimming range of  $\pm 10\%$ .



2. Positive Logic Control on/off.

Item	Description
Logic Compatibility	CMOS or Open Collector TTL
Module ON	$> +3.5$ to $V_{in,max}$ VDC, or Open Circuit
Module OFF	$< 1.2$ VDC

## ● 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.
4. All right reserved by Guangzhou NengDa Power Supply Technology Co., Ltd.