

<h1>NDDY</h1>	NA03-T2SXX	3W, ULTRA SMALL
	PRODUCT SPECIFICATION	AC/DC CONVERTER

● FEATURES

- Wide input: 85-264VAC or 100-370VDC
- Isolated-regulated single output
- Output over load protection
- Compact size
- Industrial-grade design
- ROHS compliant
- 3 years warranty



● DESCRIPTION

This is a 3W compact and efficient series of AC-DC power supplies suited for industrial, electric power, instrumentation, smart home applications, and etc.

● PRODUCT LIST

Product Name	Size	Output	EFF (TYP.)
NA03-T2S05	38.0mm×19.5mm×17.0mm	5V/600mA	66%
NA03-T2S09		9V/333mA	71%
NA03-T2S12		12V/250mA	73%
NA03-T2S15		15V/200mA	74%
NA03-T2S24		24V/125mA	76%

● INPUT SPECIFICATIONS

Parameter	Conditions / Description	Min	Nom	Max	Unit
Input Voltage	AC input	85	220	264	VAC
	DC input	100	310	370	VDC
Frenquency	AC input	47	-	63	Hz
Input Current	115VAC	-	-	120	mA
	230VAC	-	-	60	

● OUTPUT SPECIFICATIONS

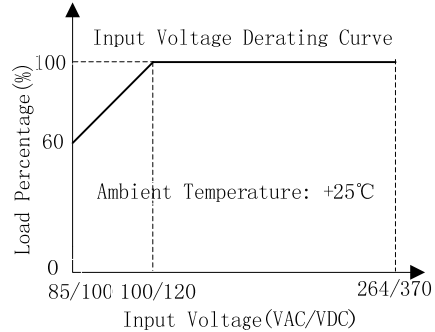
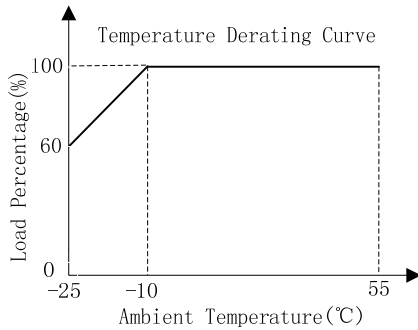
Parameter	Conditions / Description	Min	Nom	Max	Unit
Voltage accuracy		-	±3	-	%
Load regulation	10%-100%Load	-	±2	-	
Line regulation		-	±2	-	
Ripple & Noise	20MHz BW, with external 10uH inductor and 220uF CAP LC filter	-	100	-	mV
OCP	Over current protection	≥110%Io, self-recovery			
SCP	Short circuit protection	Continuous, self-recovery			

● GENERAL SPECIFICATIONS

Parameter	Conditions / Description	Min	Nom	Max	Unit
Operating temperature		-25	-	+55	℃
Storage temperature		-40	-	+85	℃
Storage humidity	No condensing	-	-	85	%RH
Insulation voltage		1500	-	-	VAC

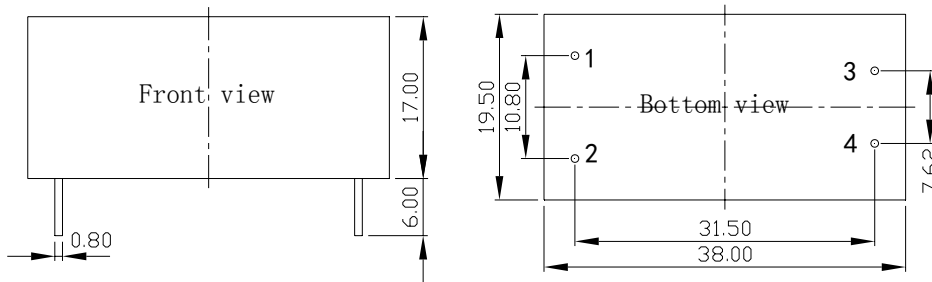
Cooling method		Natural air cooling			
MTBF	MIL-HDBK-217F@25°C	215000	-	-	hrs
Weight		-	18	-	g

● **PRODUCT CHARACTERISTIC CURVE**



Note: Input voltage should be derated based on temperature derating if input voltage is less than 100VAC/120VDC.

● **DIMENSIONS AND PIN ASSIGNMENT**



Pin	1	2	3	4
Function	AC (L)	AC (N)	+Vo	-Vo

Unit: mm
Pin diameter tolerance: ± 0.1
Pin length tolerance: ± 2.00
General tolerance: ± 0.50

● **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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