

NDDY	NH(L) 02-T2SXX-T	2W, 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
- 2 years warranty

● **DESCRIPTION**

This is a 2W (with 3W peak power) compact and efficient series of AC-DC power supplies suited for industrial, electric power, instrumentation, smart home applications.

● **PRODUCT LIST**

Product Name	Size	Output	EFF (TYP.)
NH02-T2S05-T	28.0mm×16.5mm×18.0mm	5V/400mA	70%
NH02-T2S12-T		12V/166mA	71%
NH02-T2S24-T		24V/83mA	72%
NL02-T2S05-T	28.0mm×18.0mm×16.5mm	5V/400mA	70%
NL02-T2S12-T		12V/166mA	71%
NL02-T2S24-T		24V/83mA	72%

● **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	-	-	60	mA
	230VAC	-	-	30	

● **OUTPUT SPECIFICATIONS**

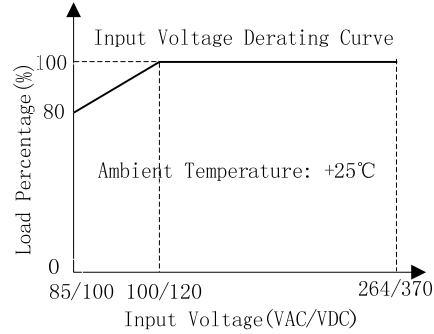
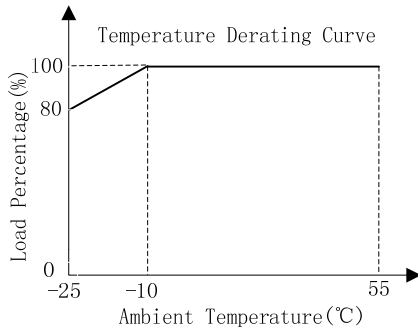
Parameter	Conditions / Description	Min	Nom	Max	Unit
Voltage accuracy		-	±3	-	%
Load regulation	10%-100%Load	-	±2	-	
Line regulation		-	±2	-	
Ripple & Noise	20MHz BW, with external 10uH inductor and 220uF CAP LC filter	-	100	-	mV
OCP	Over current protection	≥110%Io, self-recovery			
SCP	Short circuit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

● **GENERAL SPECIFICATIONS**

Parameter	Conditions / Description	Min	Nom	Max	Unit
Operating temperature		-25	-	+55	°C
Storage temperature		-40	-	+85	°C
Storage humidity	No condensing	-	-	85	%RH

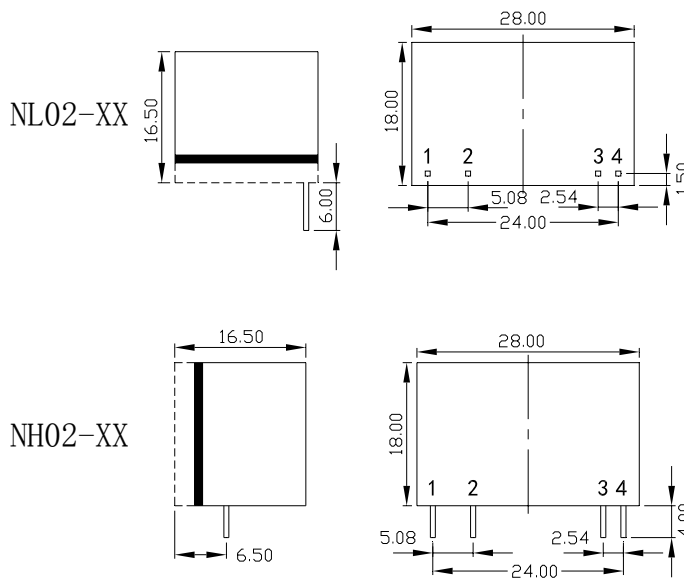
Insulation voltage		1500	-	-	VAC
Cooling method		Natural air cooling			
MTBF	MIL-HDBK-217F@25°C	215000	-	-	hrs
Weight		-	6.5	-	g

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

Unit: mm
Pin: SQ 0.64
Pin length tolerance: ± 1.00
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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