

NDDY	NA10-V2XXX	10W, SMALL SIZE SINGLE (DUAL) OUTPUT AC/DC CONVERTER
	PRODUCT SPECIFICATION	

● **FEATURES**

- Wide input: 85-264VAC or 100-370VDC
- Isolated-regulated single(dual) output
- Output over load protection
- Compact size:55mm×45mm×22.5mm
- Industrial-grade design
- ROHS compliant
- 3 years warranty



● **DESCRIPTION**

This is a 10W compact and efficient series of AC-DC power supplies suited for industrial, electric power, instrumentation, smart home applications, and etc.

● **PRODUCT LIST**

Product Name	Output Number	Output Voltage and Current		EFF (TYP.)
		Vo1/Io1	Vo2/Io2	
NA10-V2S05	Single-Output	5V/2000mA	-	68%
NA10-V2S12		12V/830mA	-	75%
NA10-V2S15		15V/660mA	-	79%
NA10-V2S24		24V/410mA	-	81%
NA10-V2D05	Dual-Output (Non-isolated)	+5V/1000mA	-5V/1000mA	72%
NA10-V2D12		+12V/420mA	-12V/420mA	77%
NA10-V2D15		+15V/330mA	-15V/330mA	79%
NA10-V2D24		+24V/210mA	-24V/210mA	81%
NA10-V2E0505	Dual Outputs (Isolated)	5V/1800mA	5V/200mA	71%
NA10-V2E0512		5V/1500mA	12V/200mA	73%
NA10-V2E0515		5V/1400mA	15V/200mA	74%
NA10-V2E0524		5V/1000mA	24V/200mA	76%

Note: Vo1 is the regulated output in products with dual-output or dual outputs.

● **INPUT SPECIFICATIONS**

Parameter	Conditions / Description	Min	Nom	Max	Unit
Input Voltage	AC input	85	220	264	VAC
	DC input	100	310	370	VDC
Frenquency		47	-	63	Hz
Input Current	115VAC	-	-	0.27	A
	230VAC	-	-	0.14	

● **OUTPUT SPECIFICATIONS**

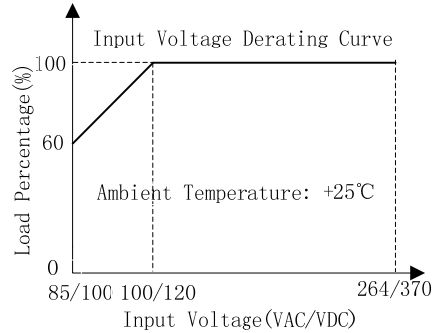
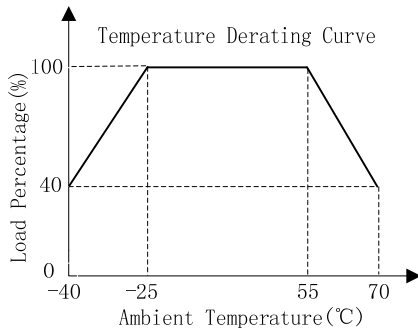
Parameter	Conditions / Description	Min	Nom	Max	Unit
Voltage accuracy	Vo1	-	±2	-	%
	Other output	-	±5	-	
Load regulation	Vo1, 10%-100%Load	-	±1	-	
	Other output, 10%-100%Load	-	±5	-	

Line regulation	Vo1, 10%-100%Load	-	± 0.5	-	
	Other output, 10%-100%Load	-	± 2	-	
Ripple & Noise	20MHz BW	-	100	-	mV
OCP	Over current protection	$\geq 110\%I_o$, self-recovery			
SCP	Short circuit protection	Continuous, self-recovery			
Minimum Load	NA10-V2SXX	0	-	-	%
	NA10-V2DXX, NA10-V2EXX	10	-	-	
Hold-up time	115VAC	-	15	-	ms
	230VAC	-	80	-	

● GENERAL SPECIFICATIONS

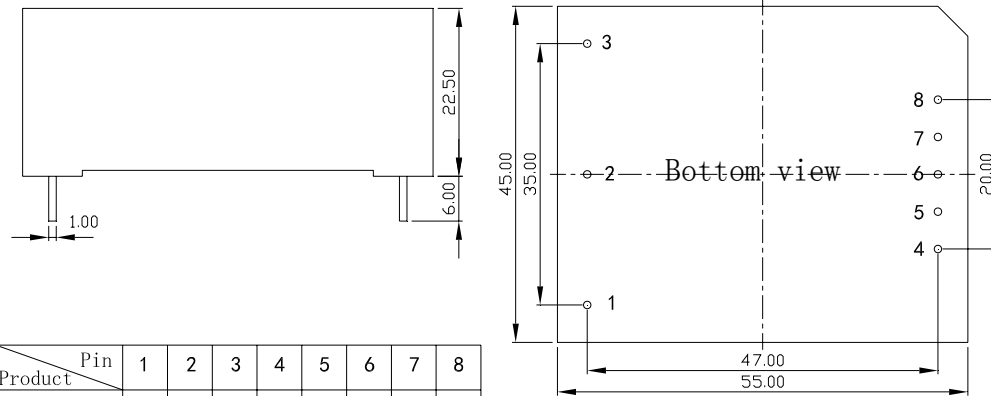
Parameter	Conditions / Description	Min	Nom	Max	Unit
Operating temperature		-40	-	+70	°C
Storage temperature		-40	-	+105	°C
Storage humidity	No condensing	-	-	95	%RH
Insulation voltage		3000	-	-	VAC
Cooling method		Natural air cooling			
MTBF	MIL-HDBK-217F@25°C	215000	-	-	hrs
Weight		-	50	-	g

● 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



Product \ Pin	1	2	3	4	5	6	7	8
NA10-V2SXX	FG	N	L	-Vo	NO PIN	NO PIN	NO PIN	+Vo
NA10-V2DXX	FG	N	L	-Vo	NO PIN	COM	NO PIN	+Vo
NA10-V2EXX	FG	N	L	-Vo1	+Vo1	NO PIN	-Vo2	+Vo2

Unit: mm
 Pin diameter tolerance: ± 0.10
 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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