


NDDY	NHXX_V2XXX-C		HIGH VOLTAGE INPUT, ISOLATED & REGULATED DUAL(SINGLE) OUTPUT DC/DC CONVERTER		
	PRODUCT SPECIFICATION				
<p>● <b>FEATURES</b></p> <ul style="list-style-type: none"> <li>■ Size: 70.0mm*48.0mm*23.5mm (Plastic case) 72.0mm*50.0mm*24.0mm (Metal case)</li> <li>■ International standard pin-out</li> <li>■ High and wide voltage input: 210~1200VDC</li> <li>■ Rated power: 10~25W</li> <li>■ Short circuit protection</li> <li>■ ROHS compliant</li> <li>■ Isolation voltage: 1500VDC</li> <li>■ Operating temperature range: -40°C~+85°C</li> <li>■ 3 years warranty</li> </ul>					
					
<p>● <b>DESCRIPTION</b></p> <p>This is a high and wide voltage input converter, specifically designed for applications where input voltage range is very high and large, and space is limited. It is widely used in PV application, industrial control, intelligent equipment, and etc.</p>					
<p>● <b>PRODUCT LIST</b></p>					
Product Name	Output power, dimension and case		Output		EFF/% (TYP.)
	Power	Dimension and case	Voltage /VDC	Current/mA Max./Min.	
NH10-V2S05-C	10W	70.0mm*48.0mm*23.5mm Plastic case	5	2000	72
NH10-V2S12-C			12	830	76
NH10-V2S15-C			15	670	77
NH10-V2S24-C			24	420	78
NH15-V2S05-C	15W	70.0mm*48.0mm*23.5mm Plastic case	5	3000	73
NH15-V2S12-C			12	1250	77
NH15-V2S15-C			15	1000	78
NH15-V2S24-C			24	625	80
NH15-V2D05-C			±5	±1500	73
NH15-V2D12-C			±12	±625	77
NH15-V2D15-C			±15	±500	78
NH15-V2D24-C	±24	±310	80		
NH25-V2S05-C	25W	72.0mm*50.0mm*24.0mm Metal case	5	5000	75
NH25-V2S12-C			12	2080	79
NH25-V2S15-C			15	1670	82
NH25-V2S24-C			24	1040	83
NH25-V2D05-C			±5	±2500	75
NH25-V2D12-C			±12	±1040	79
NH25-V2D15-C			±15	±830	82

● INPUT PARAMETERS

Parameter	Conditions / Description	Min	Nom	Max	Unit
Input voltage		210	600	1200	VDC
Input current	NH25-V2XXX-C	-	-	200	mA
Input surge	Vin = 210VDC	-	20	-	A
Low voltage protection	Protection is actived	-	190	-	VDC
	Protection is released	-	200	-	
Polarity protection	When input polarity is reversed, product will not be damaged.	YES			

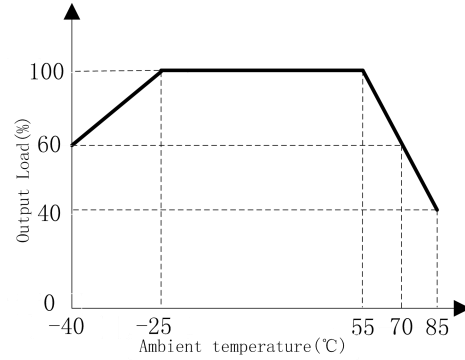
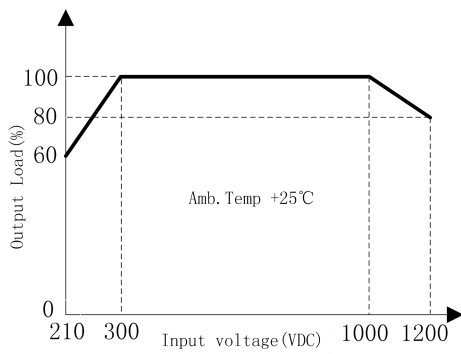
● OUTPUT PARAMETERS

Parameter	Conditions / Description	Min	Nom	Max	Unit
Voltage accuracy	Single output	-	±2	-	%
	Dual output, balance load	-	±5	-	%
Load regulation	Single output, 10%-100%Io	-	±1	-	%
	Dual output, 10%-100%Io	-	±3	-	%
Line regulation	Single output, 100%Io	-	±1	-	%
	Dual output, 100%Io	-	±2	-	%
Ripple & Noise	20MHz BW	5Vo	-	100	mVp-p
		Other output	-	150	
SCP	Short circuit protection	Continuous, self-recovery			
OCP	Over current protection	≥110%Io, self-recovery			
Min Load		0	-	-	mA
Start-up delay		-	-	6	s

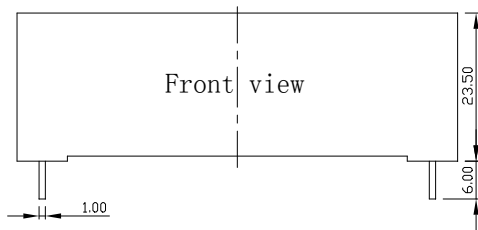
● GENERAL PARAMETERS

Parameter	Conditions / Description	Min	Nom	Max	Unit
Operating temperature		-40	-	+85	℃
Storage temperature		-40	-	+105	℃
Storage humidity	No condensing	-	-	95	%RH
Switching frequency	100%Io, nominal voltage input	-	65	-	kHz
Cooling method		Natural air cooling			
Insulation voltage		4000	-	-	VDC
Insulation resistance	Input-output, 500VDC, 25℃, 70%RH	100	-	-	MΩ
MTBF	MIL-HDBK-217F@25℃	215	-	-	KHours
Weight		-	120	-	g

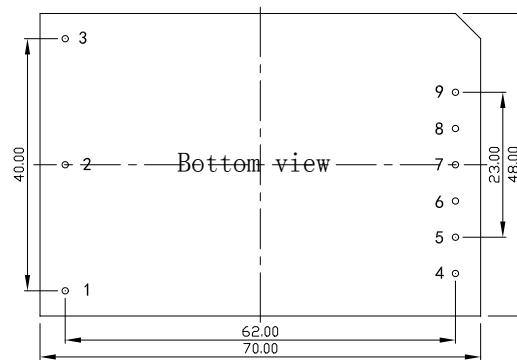
● DERATING CURVE



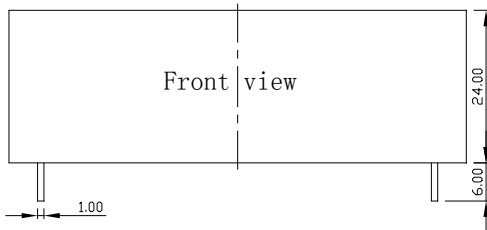
● DIMENSIONS AND PIN ASSIGNMENT



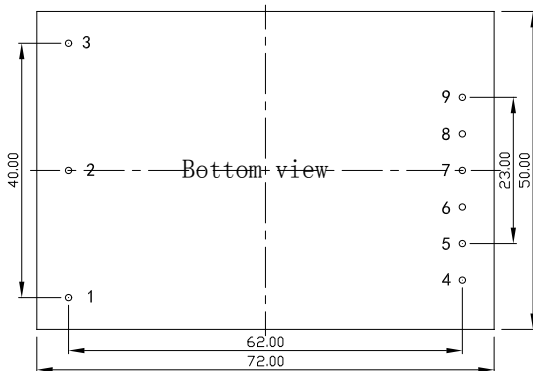
PIN	1	2	3	4	5	6	7	8	9
XXSXX-C	NO PIN	-Vin	+Vin	NO PIN	-Vo	NO PIN	NO PIN	NO PIN	+Vo
XXDXX-C	NO PIN	-Vin	+Vin	NO PIN	-Vo	NO PIN	COM	NO PIN	+Vo



Unit: mm  
 Pin diameter tolerance:  $\pm 0.10$   
 Pin length tolerance:  $\pm 2.00$   
 General tolerance:  $\pm 0.50$



PIN	1	2	3	4	5	6	7	8	9
XXSXX-C	NO PIN	-Vin	+Vin	NO PIN	-Vo	NO PIN	NO PIN	NO PIN	+Vo
XXDXX-C	NO PIN	-Vin	+Vin	NO PIN	-Vo	NO PIN	COM	NO PIN	+Vo



Unit: mm  
 Pin diameter tolerance:  $\pm 0.10$   
 Pin length tolerance:  $\pm 2.00$   
 General tolerance:  $\pm 0.50$

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