

175-200W, 3" x 5" Power Supplies

Features

- ◆ 1-5 Outputs
- ◆ Up to 90% Efficient
- ◆ Active Power Factor Correction
- ◆ Universal Input (90 - 264VAC)
- ◆ No Minimum Loads
- ◆ Medical Approvals (Basic Insulation Input-Output)



Key Market Segments & Applications



Specifications		
Model		NV175
Input Voltage range	-	90 - 264VAC (47 - 63Hz, 440Hz with reduced PFC)
Inrush Current	A	<40A at 25°C and 230VAC input, Cold Start
Power Factor Harmonics	-	EN61000-3-2 Compliant (0.97 typical)
Regulation Total	-	1%; Including Line (for 90-264VAC input change), Load (for 0-100% load change) and Cross (for 0-100% load change on any other output) regulation
Ripple & Noise	mV	1% or 50mV (Which ever is greater)
Efficiency	-	Up to 90%, configuration dependant
Minimum Load	A	None
Overcurrent Protection	-	>105%
Overvoltage Protection	V	CH1 & CH2, 120-130%, Cycle AC line to reset
Overtemperature Protection	-	Yes
Hold Up Time (Typ)	ms	>16ms at 90VAC Input
Leakage Current (max)	µA	123µA 120VAC 60Hz, 257µA 240VAC 60Hz, <300µA 264VAC 63Hz (Type Test results)
Remote Sense	-	On Outputs CH1 & CH2, 0.5V compensation maximum
DC Good	-	CH1 Only, High on Fail (90% of nominal ±5%)
Remote On/Off (Specify N option)	-	-N1 or -N2 option: TTL level high = Off, -N3 or -N4 option: open circuit = Off (except standby)
Operating Temperature (1)(7)	-	0 to +70°C. Derate linearly to 50% load from 50°C to 70°C
Storage Temperature	-	-40 to +85°C
Humidity (non condensing)	-	5 - 95% RH
Cooling	-	Forced air, 2m/s from input to output (Approx 10 CFM)
Isolation (4)	-	Input to Ground 2.3kVDC, Input to Output 4.3kVDC, Output to Ground 200VDC
Vibration (non operating)	-	Conforms to MIL-STD-810E, Method 516.5, Pro I, IV, VI; EN60068-2-6, IEC68-2-6
Shock	-	Conforms to MIL-STD-810E/F, Method 514.4, Pro I, Cat 1,9; EN60068-2-27, EN60068-2-47, IEC68-2-47, IEC68-2-47, JIS C0041-1987
Safety Agency Approvals	-	UL/CSA/IEC/EN 60950-1, UL/CSA/IEC/EN 60601-1, ANSI/AAMI ES60601-1, IEC/EN 61010-1, CE Mark
Immunity	-	EN61000-6-2:2001, EN61000-4-2, -3, -4, -5, -6, -8, -11
Conducted Emissions and Flicker	-	EN55022 Class B (per CISPR.22), EN61000-3-3
Radiated Emissions (2)	-	EN55022 Class A (per CISPR.22)
Weight (Typ)	g	250g
Size (without cover) (3)	in	3" x 5" x 1.25"; N option version 3.7" x 5" x 1.25"
Warranty	yrs	Three Years

(1) -20°C cold start

(2) See application note for Class B

(3) Including underside component leads

(4) Input-Output: Reinforced IEC60950-1, Basic IEC 60601-1.

See NV175-M for reinforced medical insulation

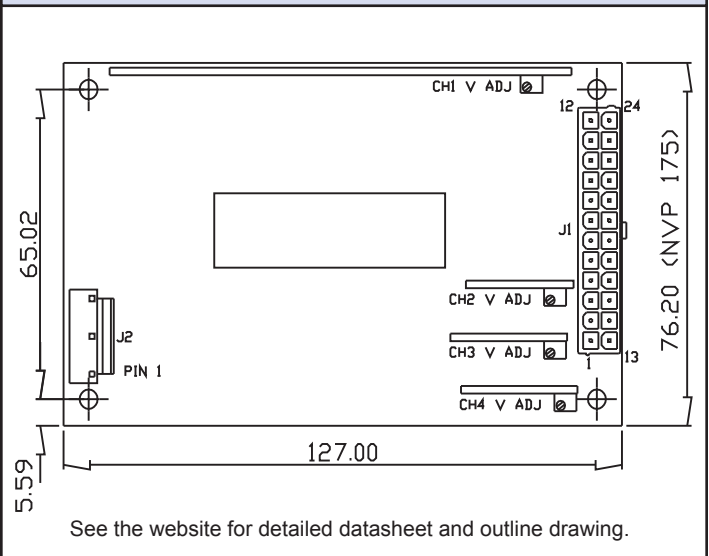
Stocked Models Quick Selector

Model	CH1 (5)	CH2 (5)	CH3	CH4	CH5 Stand By (6)	Global Option Type
NV1-1T000	12V/15A	-	-	-	-	-
NV1-1G000	24V/7.5A	-	-	-	-	-
NV1-453TT	+5V/25A	+3.3V/15A	+12V/5A	-12V/1A	-	-
NV1-453FF	+5V/25A	+3.3V/15A	+15V/5A	-15V/1A	-	-
NV1-4G5TT	+24V/7.5A	+5V/8A	+12V/5A	-12V/1A	-	-
NV1-4G5FF	+24V/7.5A	+5V/8A	+15V/5A	-15V/1A	-	-
NV1-453TT-N3	+5V/25A	+3.3V/15A	+12V/5A	-12V/1A	5V/2A	N3 (ATX)
NV1-453FF-N3	+5V/25A	+3.3V/15A	+15V/5A	-15V/1A	5V/2A	N3 (ATX)
NV1-4G5TT-N3	+24V/7.5A	+5V/8A	+12V/5A	-12V/1A	5V/2A	N3 (ATX)
NV1-4G5FF-N3	+24V/7.5A	+5V/8A	+15V/5A	-15V/1A	5V/2A	N3 (ATX)

Notes:

- (5) Maximum combined current from CH1 + CH2 = 25A
5V CH1 models are limited to 175W max. All others 180W, 200Wpk 5 mins
- (6) CH5 is always on regardless of inhibit status. Peak rated at 2.5A, floating output
- (7) Convection cooled maximum ratings: CH1: 55W, CH2: 8.25W, CH3: 9W, CH4: 3W, 75.25W total. 0°C - 40°C temperature range
- (8) 12 - 12.5V if 24V CH3 is fitted.
- (9) 14.5 - 15.5V if 24V CH3 is fitted.
- (10) 24 - 24.5V if 5V CH2 is fitted.
24 - 26V if 24V CH3 is fitted

Outline Drawing



Built to Order Model Selector

CH1	CH1(5)	Adjust.	CH2			Adjust.	CH3	Adjust.	CH4			Adjust.
	Code	Range	CH2(5)	Code	Range	CH3	Code	Range	CH4	Code	Range	
+5V / 25A	5	5 - 5.5V	+1.8V / 15A	1	0.9 - 3.3V				-12V / 1A	T	Fixed	
			+2.7V / 15A	2	2.5 - 3.3V				-15V / 1A	F	Fixed	
			+3.3V / 15A	3	2.5 - 3.3V				-3.3V / 2A	3H	Fixed	
			No output	0	-				-5V / 2A	5H	Fixed	
						+12V / 5A	T	12 - 15V	-12V / 2A	TH	Fixed	
						+15V / 5A	F	12 - 15V	-15V / 2A	FH	Fixed	
+12V / 15A	T	12 - 15V (8)	+5V / 10A	5	3.3 - 5.5V	+24V / 2.5A	G	18 - 24V	Fan Supply only	0H	Fixed	
+15V / 12A	F	12 - 15V (9)	No output	0	-	No output	0	-	No output	0		
						Add "Y" to code for negative polarity output			Add "P" to code for positive polarity output	Add "P" to code for positive polarity output		
+24V / 7.5A	G	24 - 28V (10)	+5V / 8A	5	3.3 - 5.5V							
			No output	0	-							

How to Create a Model Number

NV1-	Enter number of outputs	CH1 Code	CH2 Code	CH3 Code	CH4 Code	Global Option	Case Option
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No Option
AC Fail, Remote On/Off, 5V/2A Standby, CH1 DC Good
AC Fail, Remote On/Off, 12V/1A Standby, CH1 DC Good
AC Fail, Remote On/Off, 13.5V/1A Standby, CH1 DC Good
ATX AC Fail+Remote On/Off, 5V/2A Standby, CH1 DC Good
ATX AC Fail+Remote On/Off, 12V/1A Standby, CH1 DC Good

* A high output CH4 (3H, 5H, TH, FH) or fan supply 0H must be selected to provide fan option.

Blank
N
N1
N2
N3
N4

Blank
U
C
F
I

No Case
U Chassis
U Chassis with Cover
U Chassis, Cover and Fan*
U Chassis, Cover and Fan*
and IEC inlet

Example

NV1 3 G 5 0 3HP N C

Description: Triple output, 24V/7.5A, 5V/8A, 3.3V/2A, Global option N, U Chassis with cover.

Mating Parts (Molex)

CONN	Housing	Pins
J1	39-01-2245	44476-3112
J2	09-50-8051	08-52-0113

Other Industrial Products

NV	300 to 700W Medical, 1-6 outputs
SC40/60	40 to 80W single, dual & triple 3x5 footprint
ZWS/ZWSPAF	5 to 240W single output power supplies

For Additional Information, please visit
us.tdk-lambda.com/lp/products/nv-series.htm



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