

- High Efficiency
- High Power Density (9.3W/in³)
- Up to 5 outputs
- No minimum load
- Fits 1U applications
- Medical Approval
- 3 Year Warranty

NV-Power

175/180/200 Watts, flexible power solution

Key Market Segments & Applications

- | | |
|-----------------------------|-------------------------|
| Instrumentation | Broadcast |
| Medical | ATE |
| Automation | Industrial Computing |
| Security | Lifesciences/Laboratory |
| Network Servers and Routers | |

Features and Benefits

Feature

Benefit

- | | |
|----------------------|----------------------------|
| ◆ High Efficiency | ◆ Minimises heat in system |
| ◆ Low Profile | ◆ Fits 1U applications |
| ◆ High Power Density | ◆ Less Space |

INPUT

Input Voltage	90 - 264Vac
Input Frequency	47 - 63Hz (440Hz with reduced PFC - consult factory)
Input Harmonics	EN61000-3-2 compliant
Inrush Current	<40A at 25°C and 264Vac, (cold start)
Input Fuse	Fast acting (not user accessible)
Power Factor	0.97 typical
Earth Leakage Current	300µA max at 264Vac & 63Hz (normal condition, 500µA Single Fault Condition)

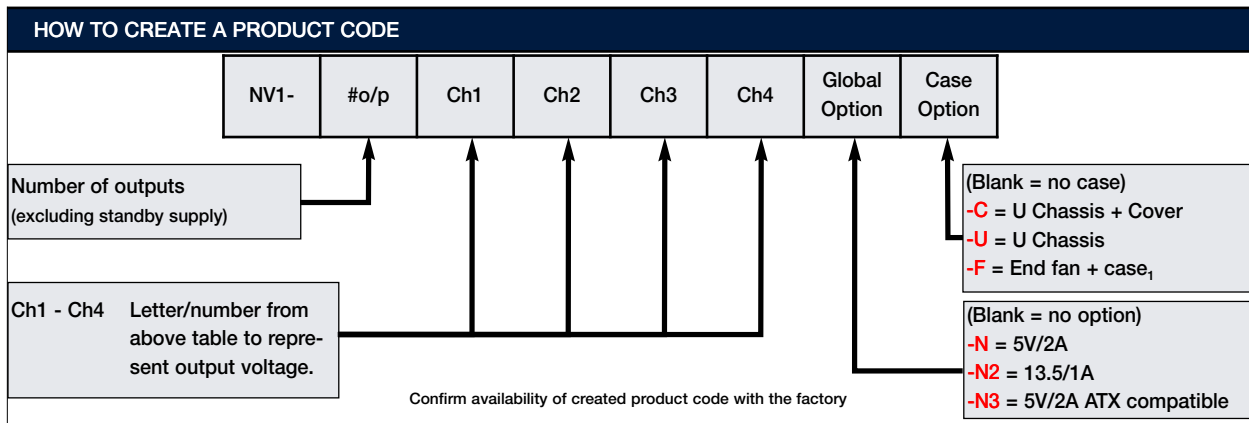
AVAILABLE OUTPUTS

Channel 1	Adjustment Range	Channel 2 ₁	Adjustment Range	Channel 3	Adjustment Range	Channel 4 ₃	Adjustment Range	
5 5V / 25A ₂	5 - 5.5V	1 1.8V / 15A	0.9 - 3.3V	T 12V / 5A F 15V / 5A G 24V / 2.5A O Omit	12 - 15V 12 - 15V 18 - 24V	T -12V / 1A	Fixed	
		2 2.7V / 15A	2.5 - 3.3V			F -15V / 1A		
		3 3.3V / 15A	2.5 - 3.3V			3H -3.3V / 2A		
0 Omit		5H -5V / 2A						
T 12V / 15A	12 - 15V ₄	5 5V / 10A	3.3 - 5.5V			TH -12.1V / 2A		Fixed
F 15V / 12A	12 - 15V ₅	0 Omit				FH -15V / 2A		Fixed
G 24V / 7.5A	24 - 28V ₆	5 5V / 8A	3.3 - 5.5V	0H Fan supply only	Fixed			
		0 Omit		0 Omit				

- Notes:
1. 1.8V, 2.7V, 3.3V channel 2 only available with 5V Channel 1
5V/10A channel 2 only available with 12V or 15V Channel 1
5V/8A channel 2 only available with 24V Channel 1.
 2. Maximum combined output current from Ch1 & Ch2 = 25A
Models with 5V channel 1 are limited to 175W output power
 3. Follow letters in red by 'P' for positive output channel 4.
 4. 12 - 12.5V if 24V channel 3 fitted.
 5. 14.5 - 15V if 24V channel 3 fitted.
 6. 24 - 24.5V if 5V channel 2 fitted
24 - 26V if 24V channel 3 fitted.

Other output options are available, please contact factory with your requirements.

OUTPUT SPECIFICATION					
	Channel 1	Channel 2	Channel 3	Channel 4	Notes
Remote Sense	Yes		No		Max 0.5V total line drop
Total Regulation	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	maximum of 50mV or 1%				pk-pk, using EIAJ test method & 20MHz bandwidth
Voltage Accuracy	±1%		+4%/-3%		±4% for channel 4 with 'T' or 'F' type outputs
Turn on Time	1.5s max		at 90 Vac & 100% rated output power		
Efficiency	up to 90%		configuration dependent		
Hold up	16ms min		at 90 Vac		
Minimum Load	None				on any output
Transient Response	<4%		of set voltage for 50% load change (in 50µs within the range 25 - 100% load)		
Recovery	<500µs		for recovery to 1% of set voltage		
Short circuit protection	Yes				
OverTemperature protection	Yes				
Over Voltage Protection	Yes		See Application Notes for details		
Ch1 Good Signal	Yes				Provides a Logic 'Low' signal after output is within 90% (±5%) of nominal.
Peak Output Power	200W		Units with 12V, 15V or 24V (T, F or G) channel 1. Average output power must not exceed 180W over any 5 minute period.		



QUICK SELECTOR - preferred configurations

Model	CH1	CH2	CH3	CH4	CH5	Global Option ₁
NV1-1T000	12V / 15A	-	-	-	-	No
NV1-1G000	24V / 7.5A	-	-	-	-	No
NV1-453TT	5V / 25A	3.3V / 15A	12V / 5A	-12V / 1A	-	No
NV1-453TT-N3	5V / 25A	3.3V / 15A	12V / 5A	-12V / 1A	5V / 2A	ATX (-N3)
NV1-453FF	5V / 25A	3.3V / 15A	15V / 5A	-15V / 1A	-	No
NV1-453FF-N3	5V / 25A	3.3V / 15A	15V / 5A	-15V / 1A	5V / 2A	ATX (-N3)
NV1-4G5TT	24V / 7.5A	5V / 8A	12V / 5A	-12V / 1A	-	No
NV1-4G5TT-N3	24V / 7.5A	5V / 8A	12V / 5A	-12V / 1A	5V / 2A	ATX (-N3)
NV1-4G5FF	24V / 7.5A	5V / 8A	15V / 5A	-15V / 1A	-	No
NV1-4G5FF-N3	24V / 7.5A	5V / 8A	15V / 5A	-15V / 1A	5V / 2A	ATX (-N3)

Above Units available on rapid delivery. See over for additional variants available 'Build to Order'

1. see page 3 for details of global option