## TDK·Lambda

# NVM175 Series

### 3" x 5" 180W Power Supplies

#### Features

- Reinforced Input to Output Isolation for IEC60601
- ◆ Very low Earth Leakage and Class B EMC
- Medical Approval (Designed for BF applications)
- Standby supply and remote on/off
- High Efficiency (90%) & High Power Density (9.3 W/in<sup>3</sup>)
- Fits 1U applications
- Dual Fusing



#### **Key Market Segments & Applications**

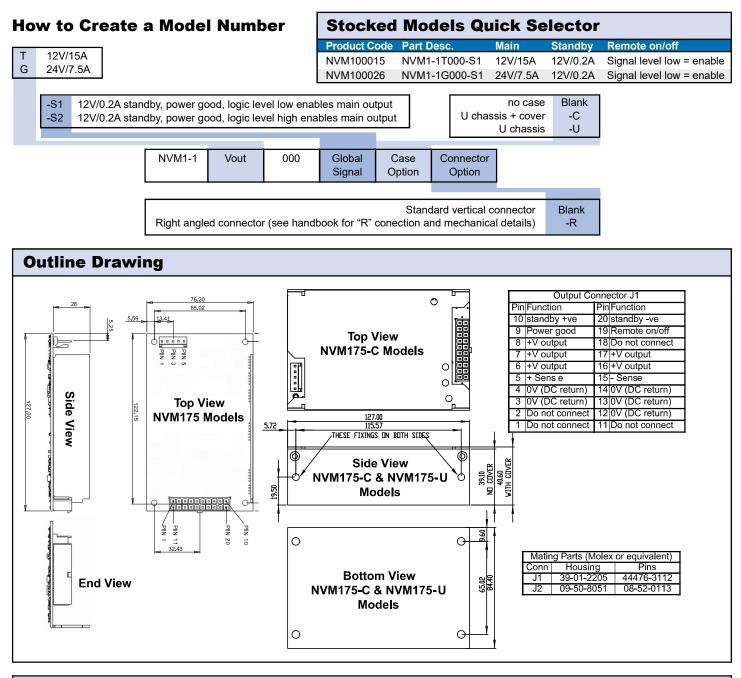


#### **Specifications**

Model		NVM-175
Input Voltage range	V	90 - 264VAC (45 - 63Hz)
Inrush Current	A	<40A at 25C and 230VAC input, Cold Start
Power Factor Harmonics	-	EN61000-3-2 Compliant, 0.97 typical
Total Regulation	-	1% Including full line & load changes
Ripple & Noise	mV	1% or 50mV (which ever is greater)
Turn on time	-	1.5s max at 90VAC & 100% rated output power
Efficiency	%	Up to 90%
Minimum Load	Α	None
Short circuit protection	-	Yes
Overvoltage Protection	V	120-135% of output, recycle input to reset
Overtemperature Protection	-	Yes
Hold Up Time (Typ)	ms	>16ms at 90VAC input
Leakage Current (max)	μA	80µA max at 120VAC (60Hz), 200µA at 264VAC (63Hz)
Remote Sense	-	Main output - 0.5V compensation maximum
Power good signal	-	Logic "High" signal indicates AC supply is good and output is within regulation.
		Provides minimum 4ms AC fail warning.
Remote On/Off	-	Yes, see options in model selector
Operating Temperature	°C	0 to +70°C. Derate by 2.5% per °C from 50°C to 70°C $^{(1)}$ .
Storage Temperature	°C	-40°C to +85°C (max 12 months)
Humidity (non condensing)	-	5 - 95% RH
Cooling	-	Forced air required, 2m/s (10CFM) blown from input to output
Isolation	-	Input to Output 4.5kVAC (Reinforced) <sup>(2)</sup> , (2 x MOPPs (3rd edition 60601)),
		Input to Ground 1.5kVAC (Basic), Output to Ground 1.5kVAC
Vibration (non operating)	-	MIL-STD810E, Method 516.5, Pro I, IV, VI. 2G, 10 - 500Hz
Shock	-	MIL-STD-810E/F, Method 514.4, Pro 1, Cat 1, 30G per IEC68-2-27
Safety Agency Approvals	-	UL/CSA/IEC/EN 60950-1, UL/CSA/IEC/EN 60601-1, ANSI/AAMI ES60601-1, CE Mark
Immunity	-	EN61000-4-2, -3, -4, -5, -6, -8, -11
Conducted Emissions & Flicker	-	EN55022 Class B (per CISPR.22), EN61000-3-3
Radiated Emissions	-	EN55022 Class B (per CISPR.22)
Weight (Typ)	g	ТВА
Size	mm	3" x 5" x 1.02" ; Covered option 3.3" x 5" x 1.6"
Warranty	yrs	Three Years

(1) -20°C cold start

(2) Type tested to 4.5 kVAC (equivalent to 6.3 kVDC). Production tested to 4.3kVDC.



Other Medical Products		
NV175M	180W, 1U, 3.3V-28V output voltages, 3" x 5", Reinforced isolation, 1-3 outputs	
NV175	175/180W, 1U, 0.9V-28V output voltages, 3" x 5", 1-5 outputs	
EFE300M	300W, 1U, 12V-48V output voltage, 6" x 3", BF rated, single output	
NV300	300W, 1U, 0.9V-28V output voltages, 7.25" x 3.75", 1-5 outputs	
NV350-700	350-1150W, 1U, 3.2V-52.8V output voltages, 1-8 outputs	
Vega	450-900W, 0.5V-62V seamless output voltages, 1-11 outputs	
KM	15 to 40W, pcb mount,3.3V-24V output voltages, ClassII,1-3 outputs	
CSS65, 150	65W or 150W, 5V-48V output voltages, open frame, single output	
Alpha 1000	1000W, 1.8V-48V output voltages, 1-14 outputs	
SWS1000L	1000W 3.3V-60V output voltages, single output	

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



For other TDK-Lambda Medical Products, visit our Medical Webpage at us.tdk-lambda.com/lp/products/medical.htm



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