

### AMED75-NZ AC-DC Converter

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samples

## AMED75-NZ



The AMED75-NZ is whole new DIN rail bracket AC-DC converter featuring a cost effective, energy efficient solution. The products offer a high level of stability and immunity to noise, compliant with international IEC/EN/UL62368, IEC/EN/UL60335, GB4943 and UL508 standards. These lightweight AC-DC converters also have an extremely compact design for space saving and are ideal for applications such as industrial control

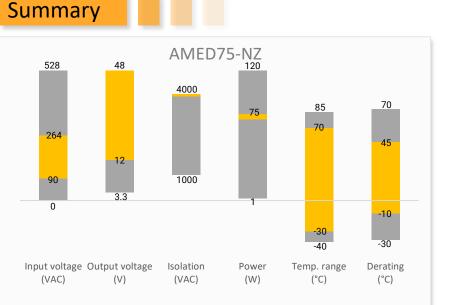
equipment machinery and numerous applications for harsh environments. This new series offers great operating temperatures, from -40°C to 70°C and an isolation of 4000VAC for improved reliability and system safety. Furthermore, a high MTBF of 300,000h, output short circuit protection (OSCP), output over-current protection (OCP) and an output over-voltage protection (OVP) come standard with the series.

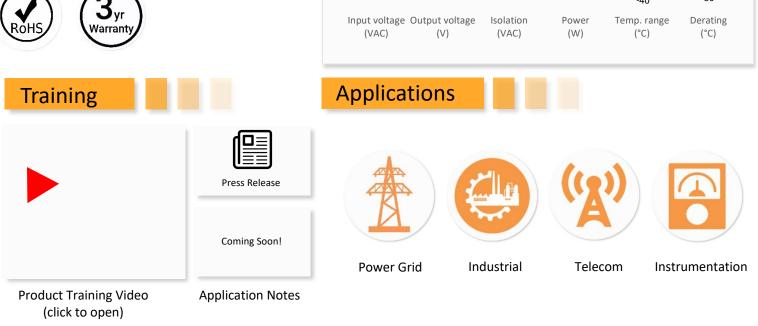
# Universal Input: 90 - 264VAC/120 - 373VDC

- Operating Temp: -30 °C to +70 °C
- High isolation voltage: 4000VAC

**Features** 

- Low ripple & noise, 150mV(p-p), max.
- Output short circuit, over-current, over-voltage, over-temperature protection





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# Models & Specifications

### Single Output

Model	Input Voltage (VAC/Hz)	Input Voltage (VDC)	Max Output wattage (W)	Output Voltage (∨)	Output Current max (A)	Maximum capacitive load (μF)	Efficiency @ 230VAC Typ. (%)
AMED75-12SNZ	90~264/47~63	120~373	75	12	6.3	6000	86
AMED75-24SNZ	90~264/47~63	120~373	75	24	3.2	1500	89
AMED75-48SNZ	90~264/47~63	120~373	75	48	1.6	1000	90

### Input Specifications

Parameters	Conditions	Typical	Maximum	Units	
Innut Current	115VAC 2000		2000	mA	
Input Current	230VAC		1000		
Januah Current	115VAC	25		۸	
Inrush Current	230VAC	45		A	
.eakage Current 240VAC / 50Hz			3.5	mA RMS	

### **Output Specifications**

Parameters	Conditions		Typical	Maximum	Units
Voltago occuracy	0 - 100% load	12 VDC Output	± 2		%
Voltage accuracy		24,48 VDC Output	± 1		%
Line regulation	Rated load		± 0.5		%
Load regulation	0 - 100% load		± 1		%
	20MHz bandwidth	12 VDC Output		80	mV p-p
Ripple & Noise		24 VDC Output		120	
		48 VDC Output		150	
	115VAC		12		ms
Hold up time	230VAC		60		ms
	12 VDC Output		12 – 14		V
Voltage adjustable range	24 VDC Output		24 - 28		
	48 VDC Output		48 - 53		

### **Isolation Specifications**

Parameters	Parameters Conditions		Maximum	Units
Tested I/O voltage		4000		
Tested Input to GND voltage	60 sec, Leakage current < 10mA	2000		VAC
Tested Output to GND voltage		500		
Insulation resistance	500VDC	>50		MΩ



### **General Specifications**

	Units			
	% of lout			
	VDC			
Over temperature protection Output voltage turn off, manual-recovery				
Hiccup, Continuous, Self-recovery(Recovery time < 3S)				
	KHz			
-30 to +70				
-40 to +85				
	%/°C			
	%/°C			
	% / VAC			
	%/°C			
Free air convection				
95	% RH			
naterial Metal (AL5052, SGCC) and Plastic( PC940)				
	g			
mensions (L x W x H) 1.18 x 5.04 x 4.72 inches (30.00 x 128.00 x 120.00 mm)				
MTBF > 300 000 hrs (MIL-HDBK -217F, t=+25°C)				
+				

### Safety Specifications

#### **Parameters**

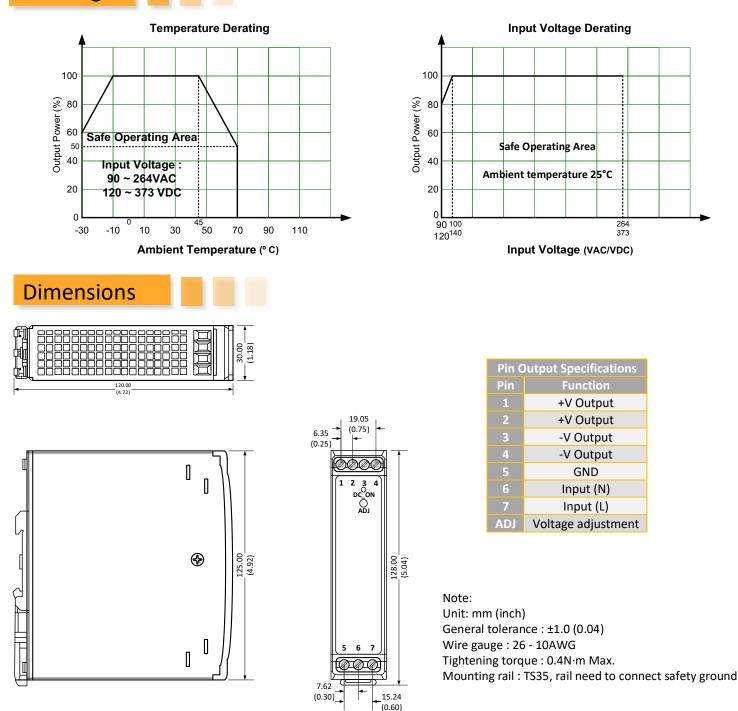
	Designed to meet IEC/EN/UL 62368, IEC/EN/UL 60335, GB4943, UL508			
	EMC - Conducted and radiated emission	CISPR32 / EN55032, Class B		
	Harmonic current	IEC/EN 61000-3-2, Class A		
	Electrostatic Discharge Immunity	IEC 61000-4-2 Contact ±4KV, Air ±6KV, Criteria A		
Standards	RF, Electromagnetic Field Immunity	IEC 61000-4-3 10V/m, Criteria A		
	Electrical Fast Transient/Burst Immunity	IEC 61000-4-4 ±2KV, Criteria A		
	Surge Immunity	IEC 61000-4-5 L-L ±2KV, L-G ±4KV, Criteria A		
	CS, Conducted Disturbance Immunity	IEC 61000-4-6 10V r.m.s, Criteria A		
	Voltage dips, Short Interruptions Immunity	IEC 61000-4-11 0%, 70%, Criteria B		



264

373

## Derating



NOTE: 1. Datasheets are updated as needed and as such, specifications are subject to change without notice. Once printed or downloaded, datasheets are no longer controlled by Aimtec; refer to www.aimtec.com for the most current product specifications. 2. Product labels shown, including safety agency certifications on labels, may vary based on the date manufactured. 3. Mechanical drawings and specifications are for reference only. 4. All specifications are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified. 5. Aimtec may not have conducted destructive testing or chemical analysis on all internal components and chemicals at the time of publishing this document. CAS numbers and other limited information are considered proprietary and may not be available for release. 6. This product is not designed for use in critical life support systems, equipment used in hazardous environments, nuclear control systems or other such applications which necessitate specific safety and regulatory standards other the ones listed in this datasheet. 7. Warranty is in accordance with Aimtec's standard Terms of Sale available at www.aimtec.com.

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