

AMED480N-GY



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samples



DIN Rail

Features



- Universal Input: 90 - 264VAC/127 - 370VDC
- Operating Temp: -20 °C to +70 °C
- High isolation voltage: 3000VAC
- Low ripple & noise, 150mV(p-p), max.
- Short circuit protection, over-voltage protection, over-load protection, and over-temperature protection



Training



Product Training Video
(click to open)



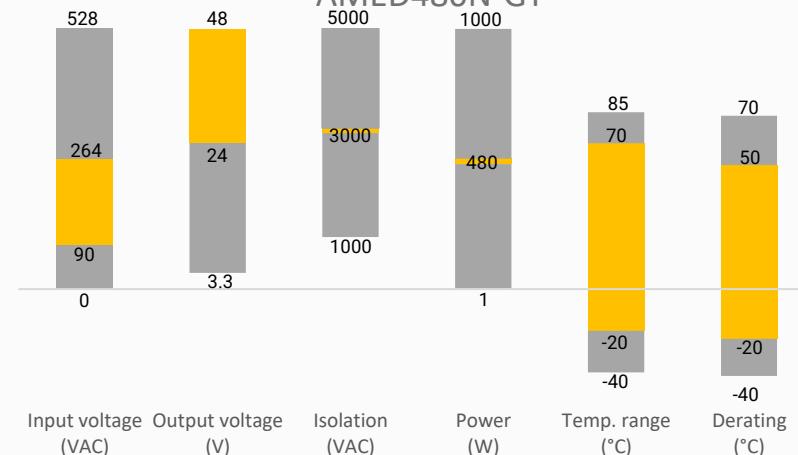
Press Release

Coming Soon!

Application Notes

Summary

AMED480N-GY



Applications



Power Grid



Industrial



Telecom

Models & Specifications



Model	Input Voltage (VAC/Hz)	Input Voltage (VDC)	Max Output wattage (W)	Output Voltage (V)	Output Current max (A)	Efficiency Typ. (%)
AMED480N-24SGY	90~264/47~63	127~370	480	24	20	92
AMED480N-48SGY	90~264/47~63	127~370	480	48	10	92

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Input Current	115VAC		4.8	A
	230VAC		2.4	A
Inrush Current	115VAC, cold start	20.0		A
	230VAC, cold start	35.0		A
Leakage Current	240VAC	<2.0		mA
Power Factor	115VAC at full load	>0.98		
	230VAC at full load	>0.94		

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy	0 - 100% load	± 2		%
Line regulation	Rated load	± 0.5		%
Load regulation	0 - 100% load	± 1		%
Ripple & Noise*	24 VDC Output		150	mV p-p
	48 VDC Output		150	mV p-p
Start-up time	230VAC input, full load	1.5		s
	115VAC input, full load	3.0		s
Rise time	230VAC input, full load	100		ms
	115VAC input, full load	100		ms
Hold up time	230VAC input, full load	16		ms
	115VAC input, full load	16		ms
Voltage adjustable range	24 VDC Output	24 - 28		V
	48 VDC Output	48 - 55		V

* Ripple and Noise are measured at 20MHz bandwidth. Please refer to the application note for specific details. Measured with a 47µF electrolytic capacitor and a 0.1µF ceramic capacitor.

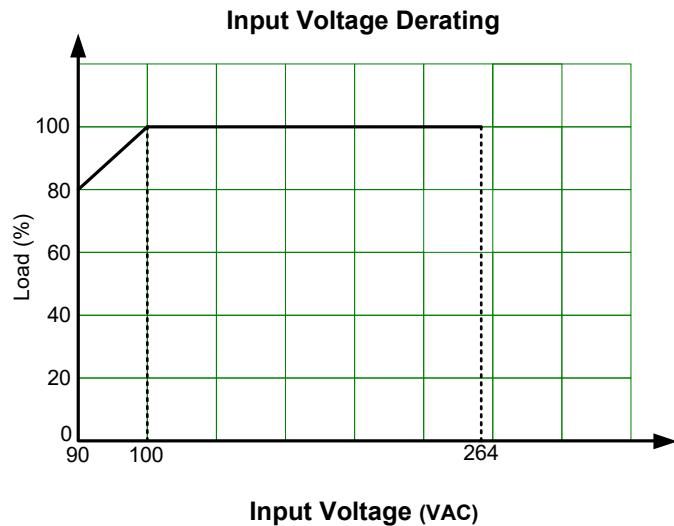
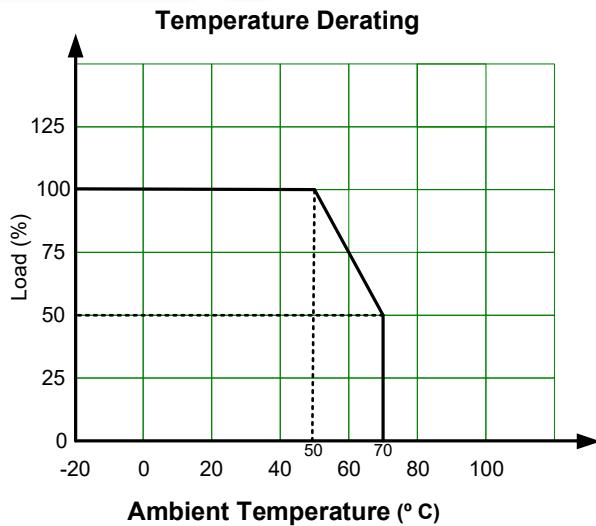
Isolation Specifications

Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	60 sec, Leakage current < 10mA	3000		VAC
Tested Input to GND voltage	60 sec, Leakage current < 10mA	2000		VAC
Tested Output to GND voltage	60 sec, Leakage current < 10mA	500		VAC
Insulation resistance	500VDC	>100		MΩ

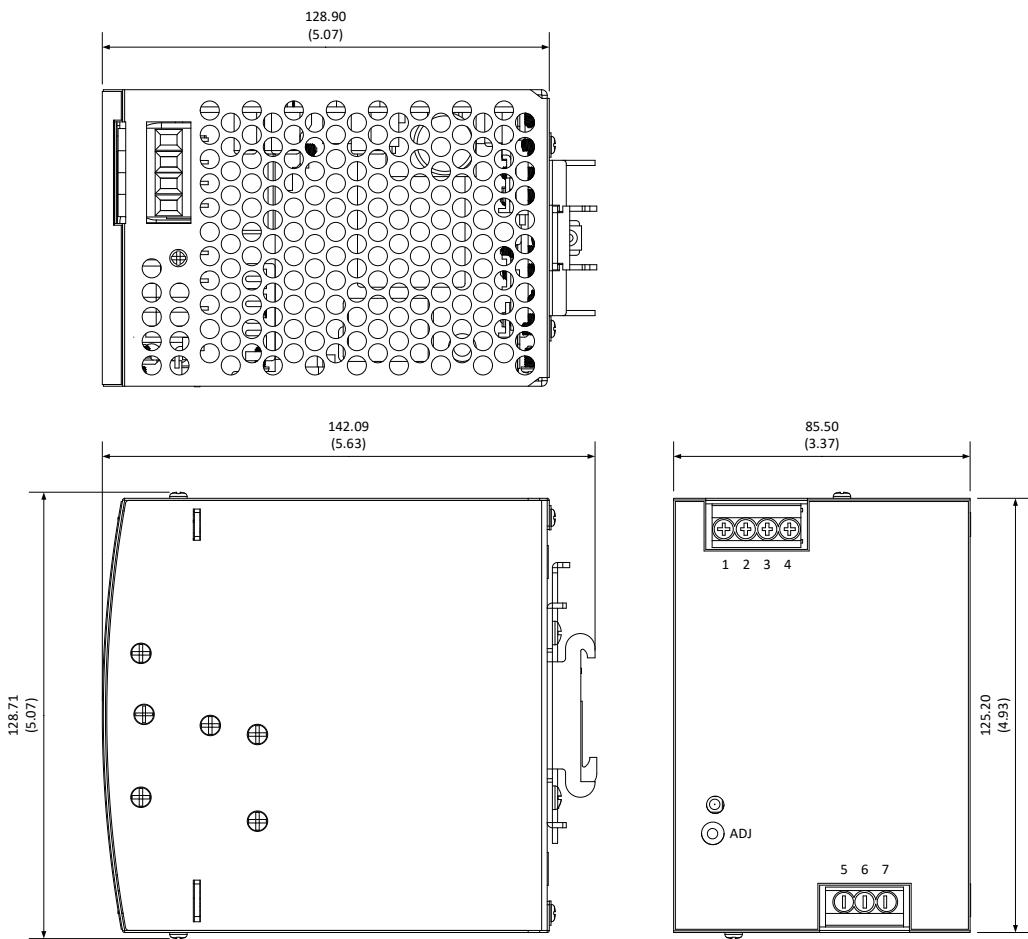
General Specifications				
Parameters	Conditions	Typical	Maximum	Units
Over voltage category	OVC III			
Over voltage protection	24 VDC Output, manual-recovery	≤ 33		VDC
	48 VDC Output, manual-recovery	≤ 65		VDC
Over temperature protection	Shuts down output voltage, auto-recovery			
Overload protection	105 ~ 130% rated output power, constant current limiting, shut down after 3 sec., manual-recovery			
Short circuit protection	Hiccup, auto-recovery			
Operating temperature		-20 to +70		°C
Storage temperature	10 ~ 95% RH	-40 to +85		°C
Operating altitude			3000	m
Power derating	230VAC, 50 °C to 70 °C	2.5		% / °C
	90 to 100 VAC	2		% / VAC
Cooling	Free air convection			
Storage Humidity	Non-condensing	>10	95	% RH
Operating Humidity	Non-condensing	>20	95	% RH
Case material	Metal			
Weight		1500		g
Dimensions (L x W x H)	3.37 x 4.92 x 5.08 inches (85.50 x 125.00 x 129.00 mm)			
MTBF	885.4K hrs min. Telcordia SR-332 (Bellcore)			
NOTE: All specifications in this datasheet are measured at an ambient temperature of 25°C, humidity<75%, nominal input voltage and at rated output load unless otherwise specified.				

Safety Specifications	
Parameters	
Agency approval	UL508, BS EN/EN62368-1
Standards	EMC - Conducted and radiated emission CISPR32 / EN55032, Class B
	Harmonic Current emission IEC/EN 61000-3-2, Class A
	Voltage Fluctuations & Flicker IEC/EN 61000-3-3
	Electrostatic Discharge Immunity IEC/EN 61000-4-2 Contact ±4KV, Air ±8KV, Criteria B
	RF, Electromagnetic Field Immunity IEC/EN 61000-4-3 3V/m, Criteria A
	Electrical Fast Transient/Burst Immunity IEC/EN 61000-4-4 ±1KV, Criteria B
	Surge Immunity IEC/EN 61000-4-5 L-L ±1KV, L-G ±2KV, Criteria B
	CS, Conducted Disturbance Immunity IEC/EN 61000-4-6 3V, 3V~1V, 1V r.m.s, Criteria A
	Power Frequency Magnetic Field Immunity IEC/EN 61000-4-8 50, 60Hz, Criteria A
	Voltage dips, Short Interruptions Immunity IEC/EN 61000-4-11 100% Voltage Dips/Interruptions, 3 cycles, Criteria B
EMC Immunity BS EN/EN55035, BS EN/EN61000-6-2(BS EN/EN50082-2)	

Derating

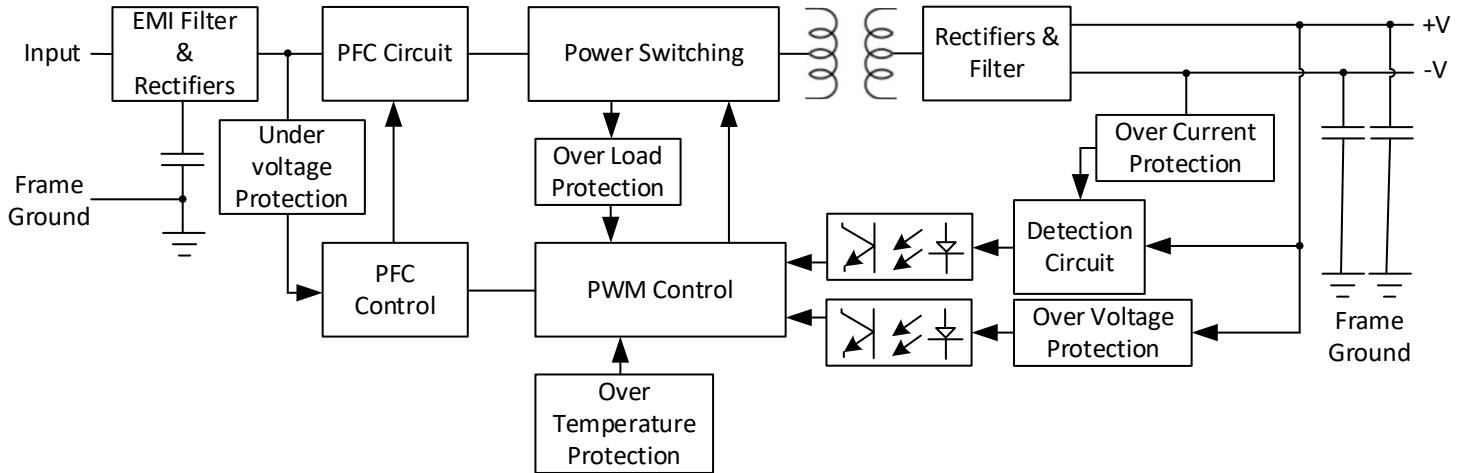


Dimensions



Pin Output Specifications	
Pin	Function
1	+V Output
2	+V Output
3	-V Output
4	-V Output
5	GND \equiv
6	N
7	L
ADJ	Voltage Adjustment

Functional Diagram



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.