

## AMED60S-GY



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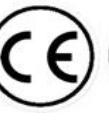


DIN Rail

## Features



- Universal Input: 90 - 264VAC/127 - 370VDC
- Operating Temp: -20 °C to +70 °C
- High isolation voltage: 3000VAC
- Low ripple & noise, 240mV(p-p), max.
- Short circuit protection, over-voltage protection, and overload protection.
- Overvoltage category III (OVC III)



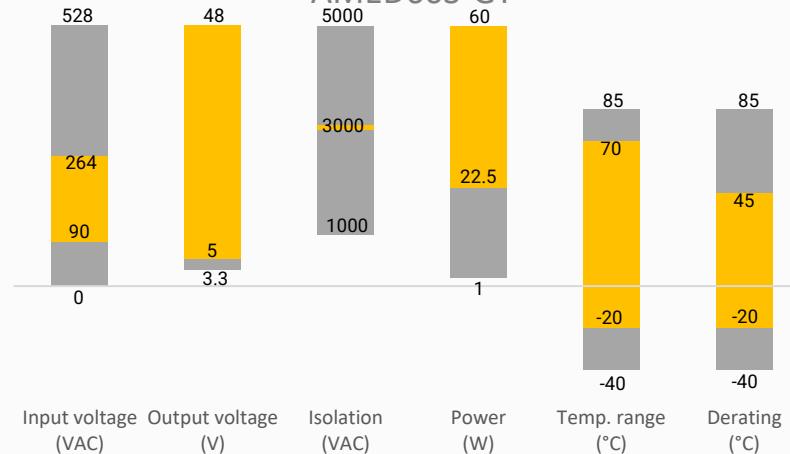
## Training



Product Training Video  
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## Summary

### AMED60S-GY



## Applications



Press Release

Coming Soon!

### Application Notes



Power Grid



Industrial



Telecom

## Models & Specifications



Model	Input Voltage (VAC/Hz)	Input Voltage (VDC)	Max Output wattage (W)	Output Voltage (V)	Output Current max (mA)	Efficiency @ 230VAC Typ. (%)
AMED60S-5SGY	90~264/47~63	127~370	22.5	5	4500	85
AMED60S-12SGY	90~264/47~63	127~370	54	12	4500	88
AMED60S-15SGY	90~264/47~63	127~370	60	15	4000	89
AMED60S-24SGY	90~264/47~63	127~370	60	24	2500	90
AMED60S-48SGY	90~264/47~63	127~370	60	48	1250	91

Input Specifications					
Parameters	Conditions	Typical	Maximum	Units	
Input Current	115VAC		1200	mA	
	230VAC		800	mA	
Inrush Current	115VAC	30		A	
	230VAC	60		A	

Output Specifications					
Parameters	Conditions	Typical	Maximum	Units	
Voltage accuracy	0 - 100% load	± 2		%	
Line regulation	Rated load	± 1		%	
Load regulation	230VAC	± 1		%	
Ripple & Noise	20MHz bandwidth, 5 VDC Output		80	mV p-p	
	20MHz bandwidth, 12 VDC Output		120	mV p-p	
	20MHz bandwidth, 15 VDC Output		120	mV p-p	
	20MHz bandwidth, 24 VDC Output		150	mV p-p	
	20MHz bandwidth, 48 VDC Output		240	mV p-p	
Hold up time	230VAC input, full load	30		ms	
	115VAC input, full load	12		ms	
Start up time	230VAC input, full load		0.5	S	
	115VAC input, full load		0.5	S	
Rise time	230/115VAC input, full load	50		ms	
Voltage adjustable range	50% load, 5 VDC Output	4.0 - 6.0		V	
	50% load, 12 VDC Output	11.0 - 13.0		V	
	50% load, 15 VDC Output	14.0 - 16.0		V	
	50% load, 24 VDC Output	23.0 - 25.0		V	
	50% load, 48 VDC Output	47.0 - 49.0		V	

Isolation Specifications				
Parameters	Conditions	Typical	Maximum	Units
Tested I/O voltage	60 sec, Leakage current < 5mA	3000		VAC
Insulation Resistance	500VDC, 25°C, 70%RH	100		M Ohms

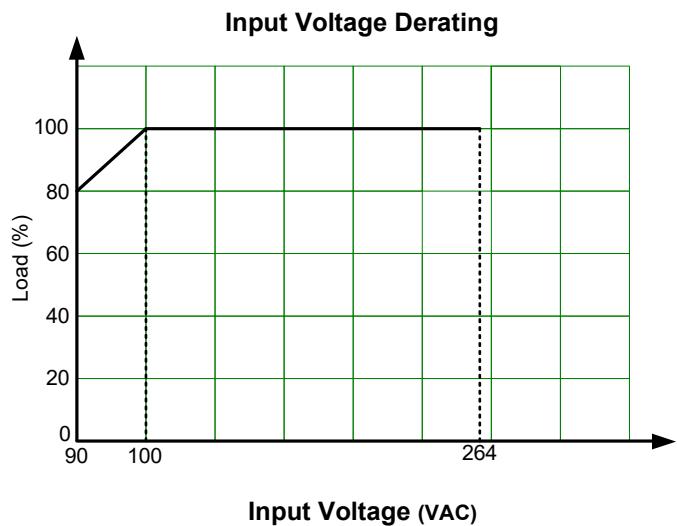
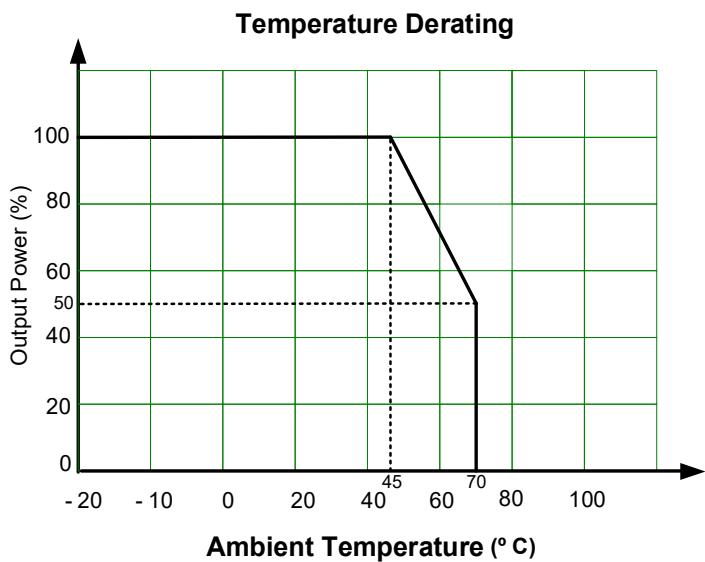
General Specifications				
Parameters	Conditions	Typical	Maximum	Units
Over voltage category	OVC III; According to EN61558, EN50178, EN60664-1, EN62477-1			
Over voltage protection	Voltage clamp or hiccup, 5 VDC Output	≤ 6.75		VDC
	Voltage clamp or hiccup, 12 VDC Output	≤ 16.2		VDC
	Voltage clamp or hiccup, 15 VDC Output	≤ 22.5		VDC
	Voltage clamp or hiccup, 24 VDC Output	≤ 36		VDC
	Voltage clamp or hiccup, 48 VDC Output	≤ 64.8		VDC
Overload protection	105~145% rated output power			
	<50% rated output voltage, hiccup, auto-recovery			
	50%-100% rated output voltage, constant current limiting, auto-recovery			
Short circuit protection	Hiccup, auto-recovery			
Operating temperature	20 ~ 90% RH Non-Condensing	-20 to +70		°C
Storage temperature	10 ~ 90% RH Non-Condensing	-40 to +85		°C
Operating altitude		2000		m
Power derating	45 °C to 70 °C	2		% / °C
	90 to 100 VAC	2		% / VAC
Temperature coefficient	0 ~ 50°C RH Non-Condensing	± 0.03		% / °C
Protection Class	Class II			
Cooling	Free air convection			
Storage Humidity		95		% RH
Case material	Plastic			
Weight		190		g
Dimensions (L x W x H)	2.05 x 3.54 x 2.28 inches (52.00 x 90.00 x 58.00 mm)			
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	UL 62368-1, BS EN/EN62368-1
Standards	EMC - Conducted and radiated emission
	Harmonic Current emission
	Voltage Fluctuations & Flicker
	Electrostatic Discharge Immunity
	RF, Electromagnetic Field Immunity
	Electrical Fast Transient/Burst Immunity
	Surge Immunity
	CS, Conducted Disturbance Immunity
	Power Frequency Magnetic Field Immunity

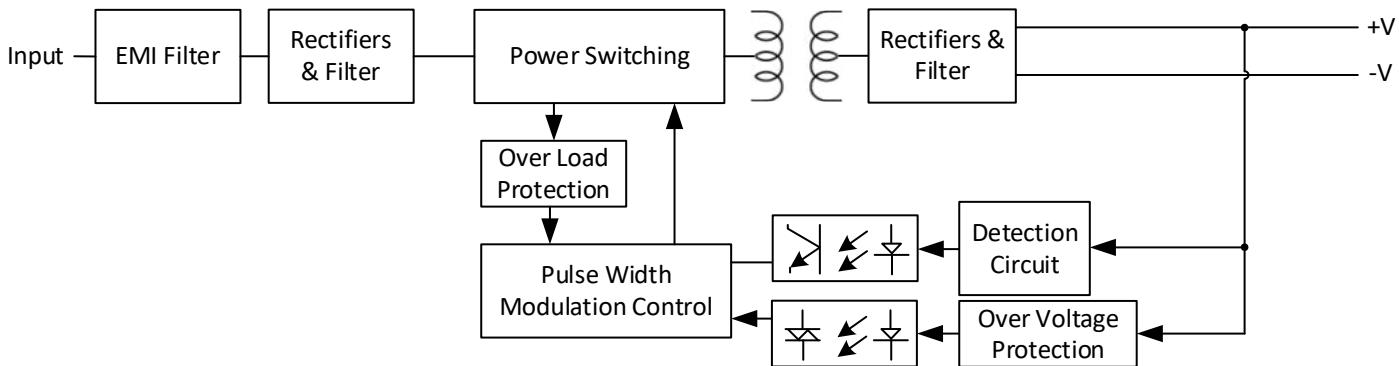
Voltage dips, Short Interruptions Immunity

IEC/EN 61000-4-11 100% Voltage Dips/Interruptions, 3 cycles, Criteria B

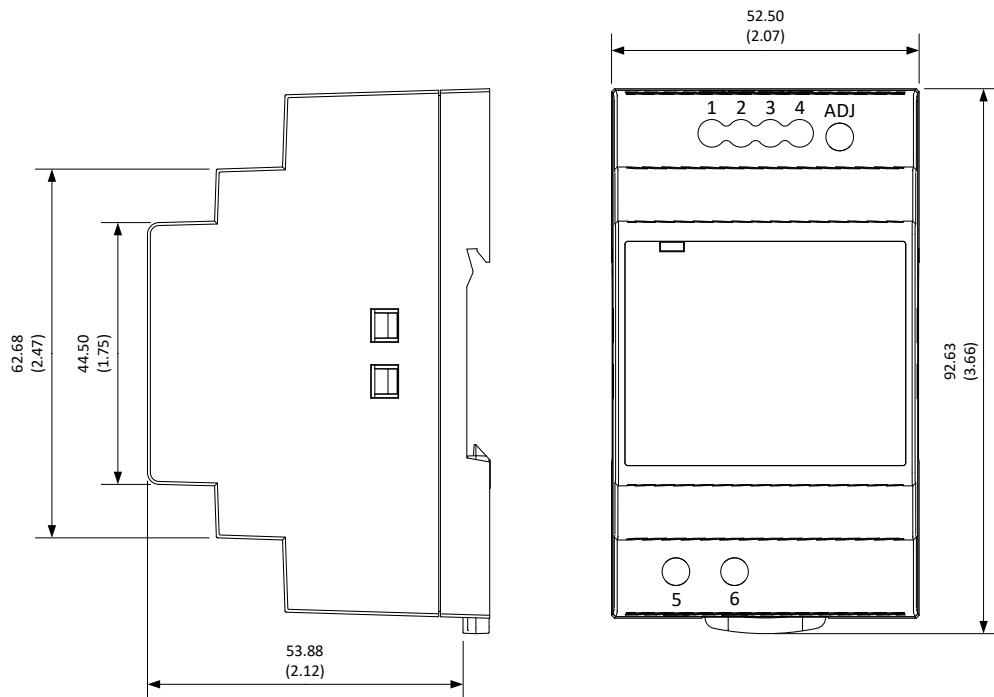
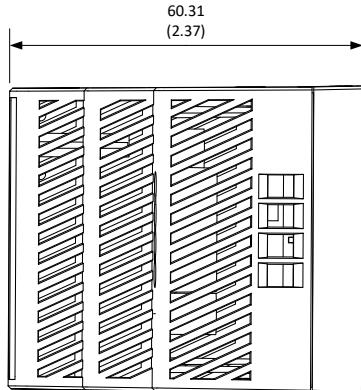
## Derating



## Functional Diagram



## Dimensions



Pin Output Specifications	
Pin	Function
1	-V Output
2	-V Output
3	+V Output
4	+V Output
5	Input (L)
6	Input (N)
ADJ	Voltage adjustment

Unit: mm (inch)  
 General tolerance:  $\pm 1.0$  (0.04)  
 Wire gauge: 24 – 12AWG  
 Tightening torque: 0.4N·m Max.  
 Mounting rail: TS35,  
 Rail must be connected to safety ground

**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](http://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](http://www.aimtec.com).