

## AMED10-GY



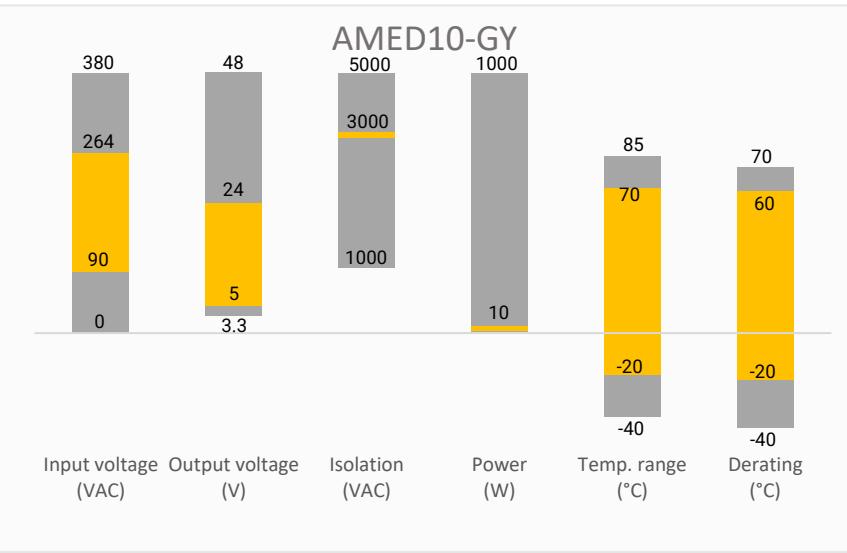
DIN Rail

### Features

- Wide Input: 90 - 264VAC/127 – 370VDC
- Operating Temp: -20 °C to +70 °C
- Isolation voltage: 3000VAC
- Low ripple & noise, 80mV(p-p), 120mV(p-p), 150mV(p-p).
- Short circuit protection, over-voltage protection, and overload protection.
- DC OK Signal Output indication



### Summary



### Training



Product Training Video  
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Press Release

Coming Soon!

### Applications



Power Grid



Industrial



Telecom

### Application Notes

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## Models & Specifications



Model	Input Voltage (VAC/Hz)	Input Voltage (VDC)	Max Output wattage (W)	Output Voltage (V)	Output Current max (A)	Efficiency @ 230VAC Typ. (%)
AMED10-5SGY	90~264/47~63	127~370	10	5	2	77
AMED10-12SGY	90~264/47~63	127~370	10	12	0.84	81
AMED10-15SGY	90~264/47~63	127~370	10	15	0.67	81
AMED10-24SGY	90~264/47~63	127~370	10	24	0.42	84

### Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Input Current	115VAC	0.33		A
	230VAC	0.21		A
Inrush Current	230VAC, cold start	35	70	A
Leakage Current	240VAC	<1		mA

### Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy	0 - 100% load	± 2		%
Line regulation	Rated load	± 1		%
Load regulation	0 - 100% load	± 5		%
Ripple & Noise*	5 VDC Output		80	mV p-p
	12 VDC Output		120	mV p-p
	15 VDC Output		120	mV p-p
	24 VDC Output		150	mV p-p
Start-up time	230VAC input, full load		0.5	s
	115VAC input, full load		1.0	s
Rise time	230VAC input, full load	30		ms
	115VAC input, full load	30		ms
Hold up time	230VAC input, full load	120		ms
	115VAC input, full load	25		ms
Voltage adjustable range	5 VDC Output	5.75 - 6.75		V
	12 VDC Output	13.8 - 16.2		V
	15 VDC Output	17.25 - 20.25		V
	24 VDC Output	27.6 - 32.4		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
Tested Output to P-G signal	60 sec, Leakage current < 2mA	500		VAC
Insulation resistance	I to O, I/O to PE, 500VDC	100		MΩ

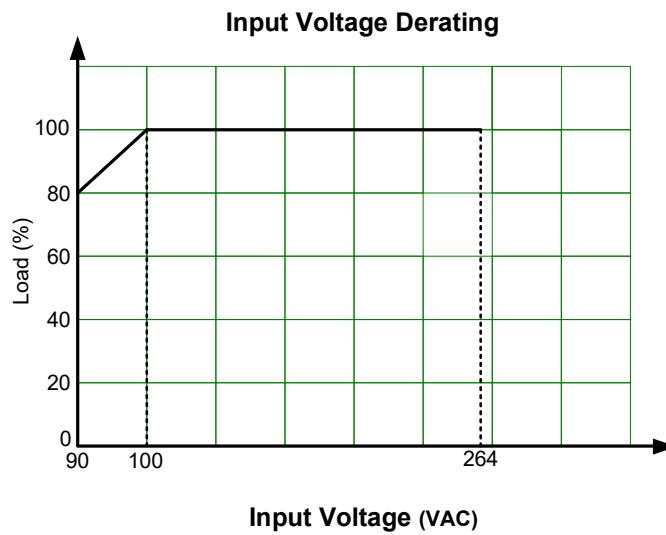
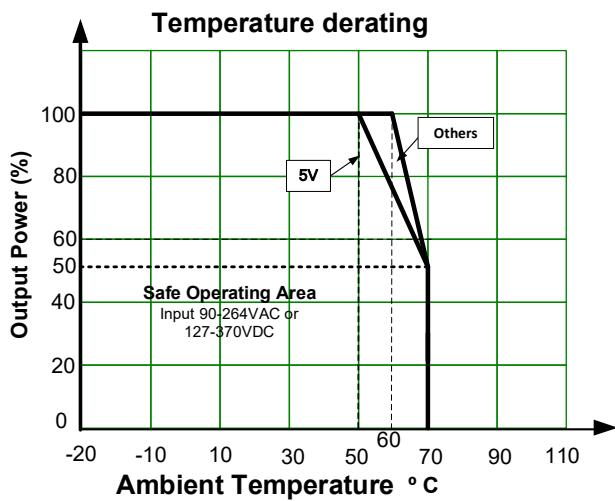
### General Specifications

Parameters	Conditions	Typical	Maximum	Units
Over voltage protection	5 VDC Output, manual-recovery	≤ 6.75		VDC
	12 VDC Output, manual-recovery	≤ 16.2		VDC
	15 VDC Output, manual-recovery	≤ 20.25		VDC
	24 VDC Output, manual-recovery	≤ 32.4		VDC
Overload protection	>105% rated output power, hiccup, auto-recovery			
Short circuit protection	Hiccup, Continuous, auto-recovery			
Operating temperature	20% ~ 90% RH Non-Condensing	-20 to +70		°C
Storage temperature	10 ~ 95% RH	-40 to +85		°C
Power derating	5 VDC Output, +50 °C to +70 °C	2.5		% / °C
	Others, +60 °C to +70 °C	5		% / °C
	90VAC - 100VAC	2		% / VAC
Cooling	Free air convection			
Storage Humidity	Non-condensing		10~95	% RH
Case material	Plastic			
Weight		140		g
Dimensions (L x W x H)	0.91 x 3.94 x 3.62 inches (23.00 x 100.00 x 92.00 mm)			
MTBF	2834.5 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.				

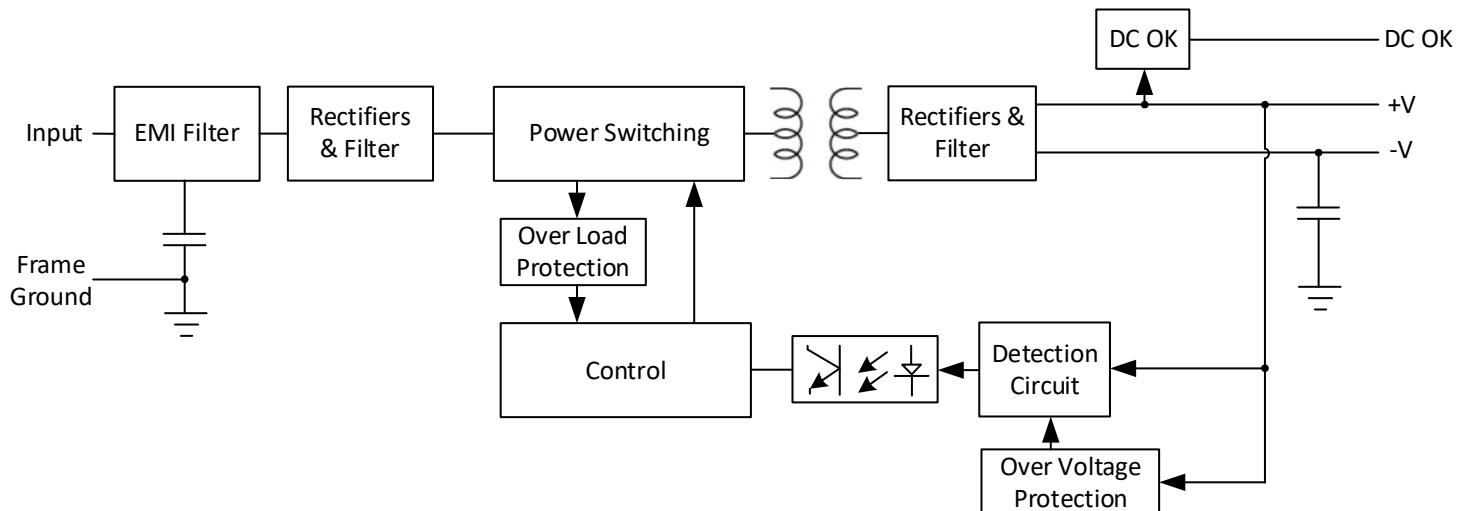
### Safety Specifications

Parameters		
Agency approval	UL508, BS/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

## Derating

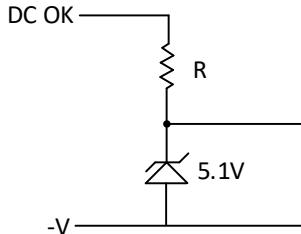


## Functional Diagram

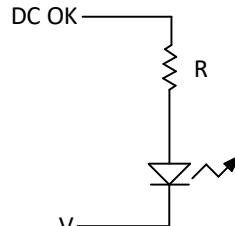


## DC OK Active Signal Application

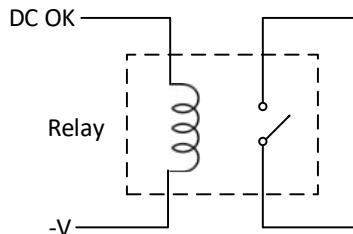
A) 5V Signal



B) Light Emitting Diode



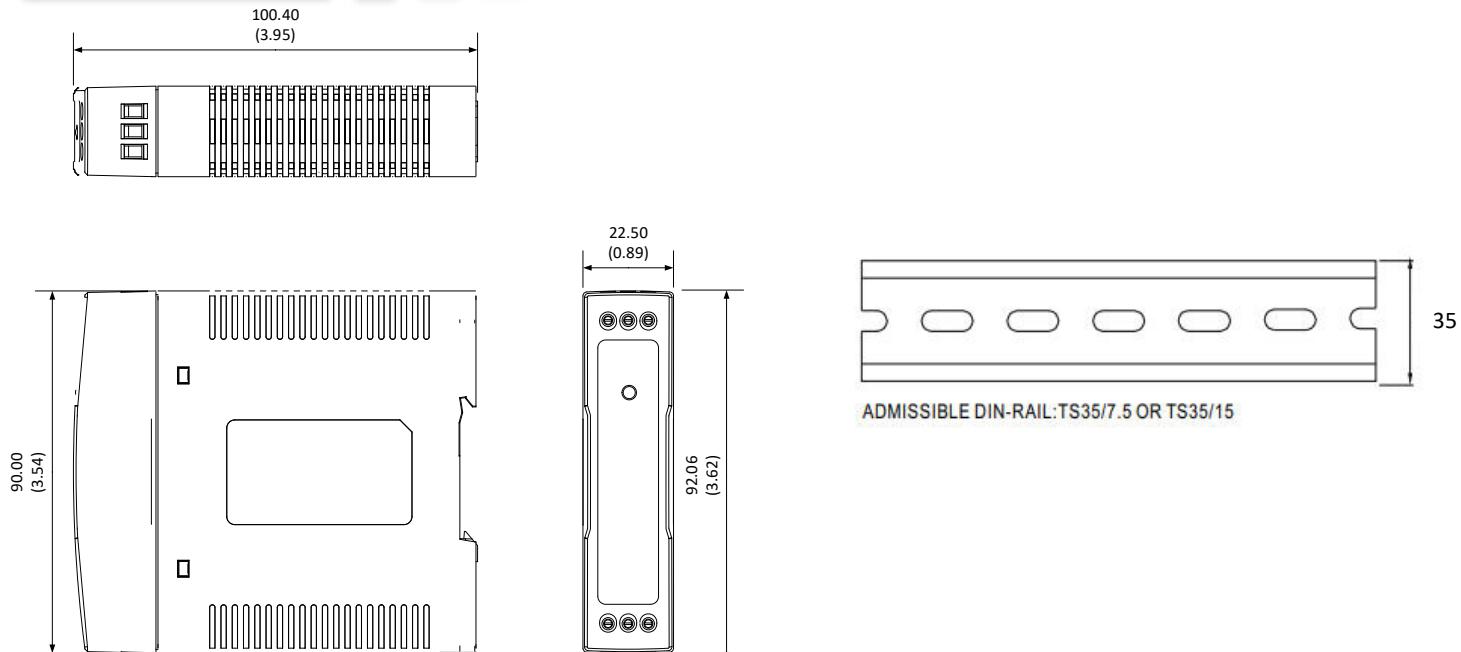
C) Relay



Model	R
5V	$\geq 200\Omega$
12V	$\geq 1.5K\Omega$
15V	$\geq 2K\Omega$
24V	$\geq 3.9K\Omega$

Model	R
5V	$\geq 1K\Omega$
12V	$\geq 2.4K\Omega$
15V	$\geq 3K\Omega$
24V	$\geq 4.7K\Omega$

## Dimensions



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