

AMED60W-GY



DIN Rail

Features

- Wide Input: 180 - 550VAC/254 - 780VDC
- Operating Temp: -30 °C to +85 °C
- Isolation voltage: 4700VAC
- Low ripple & noise, 100mV(p-p), 120mV(p-p), 150mV(p-p), and 200mV(p-p).
- Short circuit, overload, over voltage, over temperature protection
- DC OK Signal Output indication
- Overvoltage category III (OVC III)
- Designed for dual-phase applications



Training



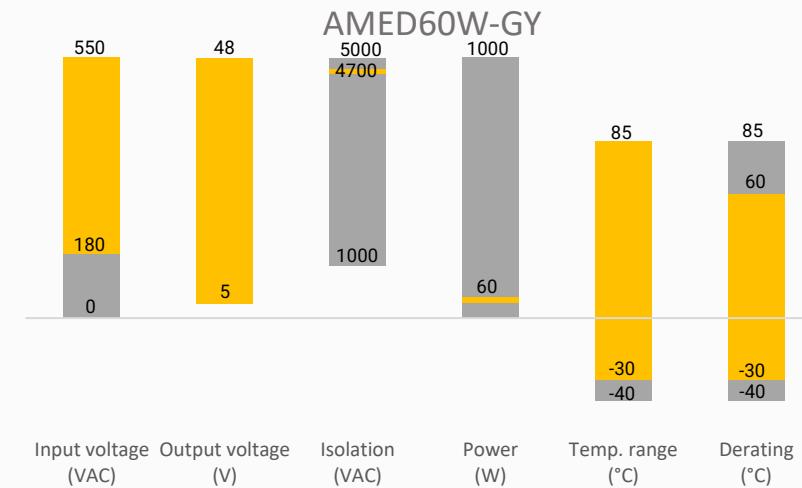
Press Release

Coming Soon!

Product Training Video
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Application Notes

Summary



Applications



Power Grid



Industrial



Telecom

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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. (%)
AMED60W-5SGY	180~550/47~63	254~780	50	5	10	83.5
AMED60W-12SGY	180~550/47~63	254~780	60	12	5	86.5
AMED60W-24SGY	180~550/47~63	254~780	60	24	2.5	89.0
AMED60W-48SGY	180~550/47~63	254~780	60	48	1.25	90.5

Input Specifications

Parameters	Conditions	Typical	Maximum	Units
Input Current	400VAC	0.4		A
	230VAC	0.7		A
Inrush Current	400VAC, cold start	50		A
	230VAC, cold start	30		A
Leakage Current	530VAC	<2.0		mA

Output Specifications

Parameters	Conditions	Typical	Maximum	Units
Voltage accuracy		± 2.0		%
Line regulation	Rated load	± 0.5		%
Load regulation	5 VDC Output	± 1.5		%
	Others	± 0.5		%
Ripple & Noise*	5 VDC Output		100	mV p-p
	12 VDC Output		120	mV p-p
	24 VDC Output		150	mV p-p
	48 VDC Output		200	mV p-p
Start-up time	230VAC input, full load		1.0	s
	115VAC input, full load		2.0	s
Rise time	400VAC input, full load		70	ms
	230VAC input, full load		70	ms
Hold up time	400VAC input, full load	20		ms
	230VAC input, full load	10		ms
Voltage adjustable range	5 VDC Output	5 - 6		V
	12 VDC Output	12 - 15		V
	24 VDC Output	24 - 29		V
	48 VDC Output	48 - 57		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	4700		VAC
Tested Input to GND voltage	60 sec, Leakage current < 10mA	2500		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/P to O/P, I/P-FG, O/P-FG, 500VDC, 25°C, 70%RH	100		MΩ

General Specifications

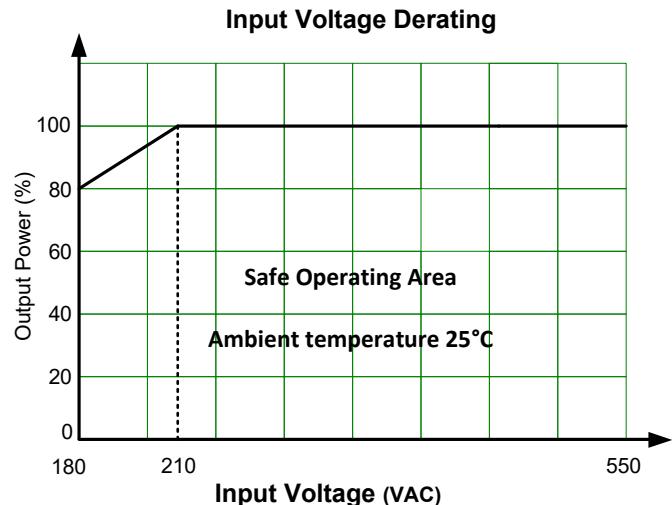
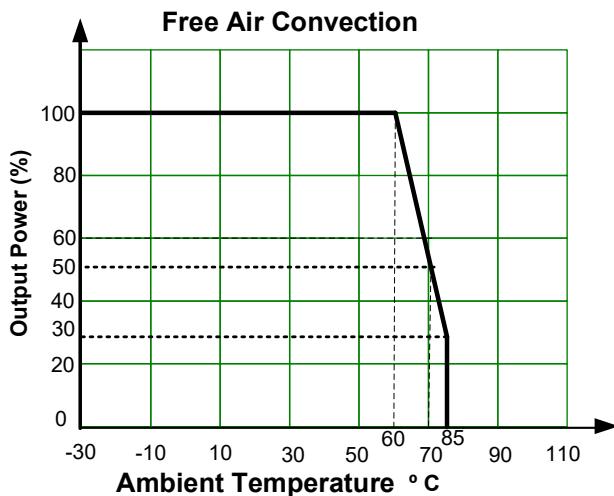
Parameters	Conditions	Typical	Maximum	Units
Over voltage category	OVC III, According to EN61558, EN50178, EN60664-1, EN62477-1, EN60204-1			
Over voltage protection	5 VDC Output, manual-recovery	≤ 7.2		VDC
	12 VDC Output, manual-recovery	≤ 18.0		VDC
	24 VDC Output, manual-recovery	≤ 37.0		VDC
	48 VDC Output, manual-recovery	≤ 60.5		VDC
Over temperature protection	Output voltage turn off, manual-recovery			
Overload protection	105 ~ 135% 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% ~ 95% RH Non-Condensing	-30 to +85		°C
Storage temperature	10 ~ 95% RH	-40 to +85		°C
Operating altitude			2000	m
Power derating	+60 °C to +85 °C	2.8		% / °C
	180VAC - 210VAC	0.67		% / VAC
Temperature coefficient	0~60°C	± 0.03		% / °C
Cooling	Free air convection			
Storage Humidity	Non-condensing		10~95	% RH
Case material	Metal			
Weight		450		g
Dimensions (L x W x H)	1.26 x 3.96 x 4.92 inches (32.00 x 100.50 x 125.00 mm)			
MTBF	1600K 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

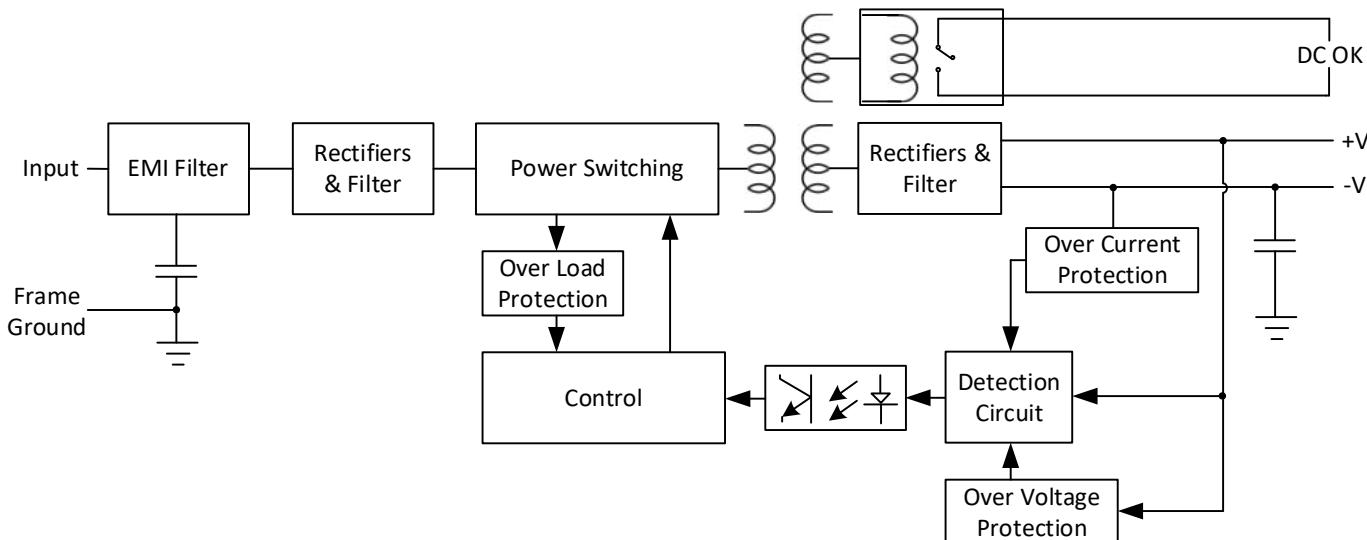
Parameters			
Agency approval	UL61010-1, UL61010-2-201, BS EN/EN 62368-1		
Standards	EMC - Conducted and radiated emission	CISPR32 / EN55032, Class B	
	Harmonic Current emission	IEC/EN 61000-3-2, Class A	
	Voltage Fluctuations & Flicker	IEC/EN 61000-3-3	
	Electrostatic Discharge Immunity	IEC/EN 61000-4-2 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

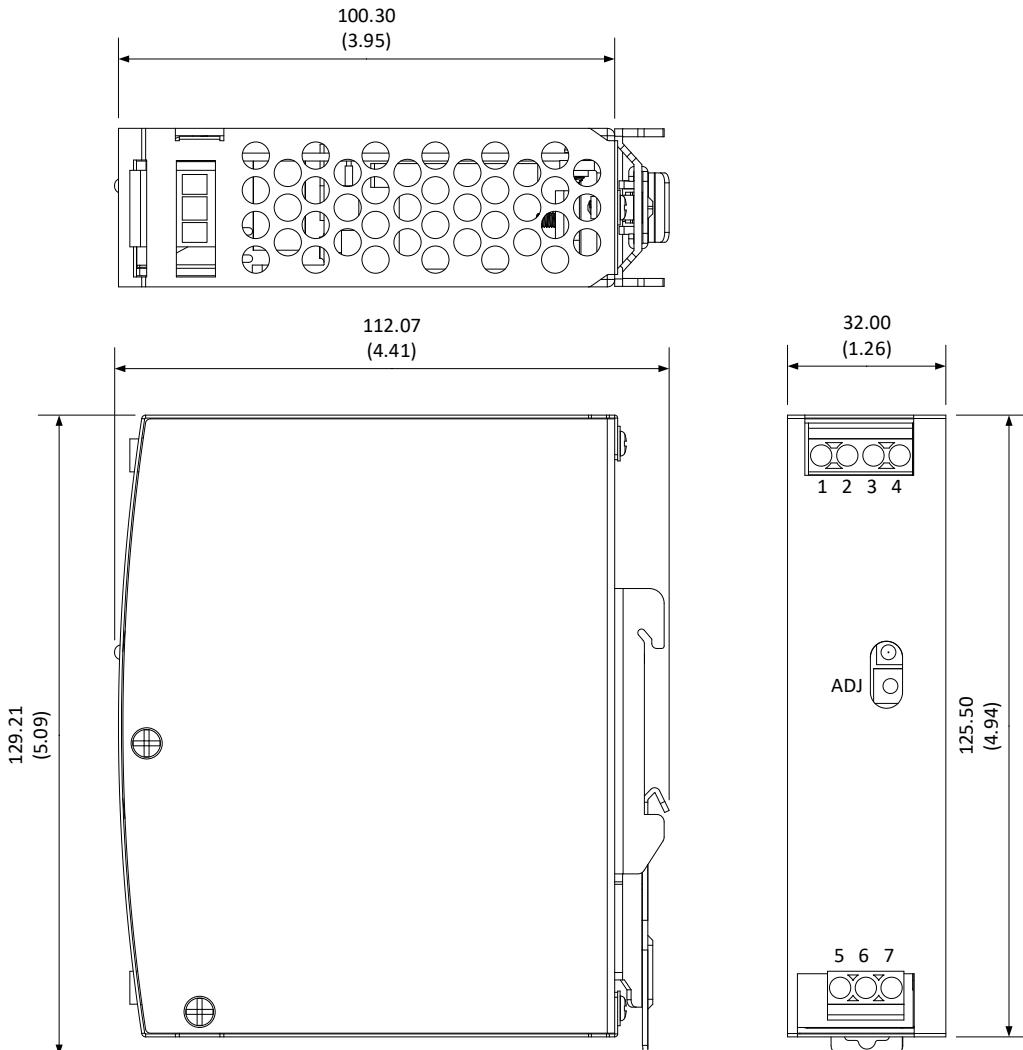


DC OK Active Signal Application



Contact Closed	Power Supply Unit turns on / DC OK
Contact Open	Power Supply Unit turns off / DC FAIL
Contact Ratings (maximum)	30V/1 A resistive load

Dimensions



Pin Output Specifications	
Pin	Function
1	-V Output
2	+V Output
3	Relay Contact
4	Relay Contact
5	GND \pm
6	L2
7	L1
ADJ	Voltage Adjustment

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