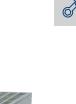
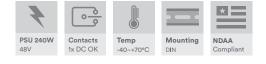
## AMGPSU-I48-P240 INDUSTRIAL DIN-RAIL 240W POWER SUPPLY



[AMGPSU-148-P240]

Industrial Power Solutions

AMG's industrial DIN-Rail 240W power supplies provide reliable power for AMG PoE based products and ensure stable equipment operation over a wide temperature range. They are suitable for all AMG PoE products (depending on voltage).



#### OVERVIEW

Designed in an ultra slim, robust DIN rail housing, the AMGPSU-148-P240 series industrial power supplies are ideally suited for powering AMG PoE Ethernet equipment. Its wide operating temperature range ensures reliable operation in harsh environments.

Available in a 48-53V output version ensures the power supply is suitable for any PoE requirement.

The power supply offers a high level of stability and immunity to noise and a low ripple for best in class performance.

Compliant to the international IEC62368 standards for EMC and are safety approved to IEC/EN61000-4, CISPR32, EN55032, UL61010, IEC62368 and EN62368.

A wide voltage input range that features dual-use inputs for both DC and AC voltages that support  $85-264V_{AC}$  or  $120-370V_{DC}$  ensures the widest possible site support.

A range of other output power levels are available within the AMGPSU product range.

#### FEATURES

- Ultra slim size ideal for confined spaces, including camera poles and roadside cabinets
- -40°C to +70°C temperature maintains performance in harsh conditions
- DIN rail mountable quick to install and remove for maintenance
- High efficiency up to 94% typical
- Universal 85-264 $V_{AC}$  or 120-370 $V_{DC}$  input range
- Output short circuit, over-current and over-voltage protection included as standard
- High I/O isolation test voltage up to 3000V<sub>AC</sub>
- Built-in active Power Factor Correction (PFC) function
- 150% peak load output for 3 seconds
- EN62368 & UL safety approved
- AMG 3 Year Support Warranty

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# Specifications.

In	pu	t.

Characteristics	<b>Operating Conditions</b>	Min.	Тур.	Max.	Unit
Input Voltage Range	AC Input	85	-	264	VAC
	DC Input	120	-	370	VDC
Input Frequency		47	-	63	Hz
Input Current	115VAC	-	-	3	
	230VAC	-	-	1.5	
Inrush Current	115VAC Cold Start	-	15	-	A
	230VAC Cold Start	-	30	-	
Power Factor	115VAC	-	0.98	-	
	230VAC	-	0.94	-	1 -
Leakage Current	264VAC		<0.5mA		
Connector		3-'	3-Way Screw Terminal		

#### Output.

Characteristics	Operating Conditions	Min.	Тур.	Max.	Unit
Output Voltage Accuracy	Full Load Range	- ±1 -			
Line Regulation	Rated Load	- ±0.5 -		-	%
Load Regulation	0% - 100% Load	-	±1	-	
Output Ripple & Noise*	20MHz Bandwidth (peak-to-peak value)	-	75	150	mV
Stand-by Power Consump.		-	4	-	W
Short Circuit Protection	Recovery time <10s after the short circuit disappears	Constant Current, Continuous, Self-Recovery			
Over-Current Protection	230VAC Rated Load, Normal/High Temp	110%-200% lo, Self-Recovery			
	230VAC Rated Load, Low Temp	≥105% lo, Self-Recovery			
Over-Voltage Protection		≤60V (Output Voltage Turn Off, Re-Power Unit For Recovery)			
Over-Temperature Protect	230VAC Rated Load	-	80	-	°C
Minimum Load		0	-	-	%
Start-up Delay Time		-	-	3	s
Hold-up Time		-	20	-	ms
DC OK Relay Output	Normally Closed (Open With DC Fault)	30VDC @ 1A Max			
Connector		4-Way Screw Terminal			
Note: *The "tip and barrel method" is used for	ripple and noise test, output parallel 47μF electrolytic capacitor and 0.1μF	ceramic capad	citor.		

### Mechanical.

Case Material	Aluminium
Dimensions	124 × 41 × 110 mm (4.88 × 1.61 × 4.33 in) (H x W x D)
Weight	0.65 kg (1.43 lb)
Cooling	Free Air Convection

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#### General.

Characteristic	cs	Operating Conditions	Min.	Тур.	Max.	Unit
Isolation Test	Input-Earth	Electric Strength Test for 1 min., (leakage current <15mA)	2000	-	-	VAC
	Input-Output		3000	-	-	
	Output-Earth		500	-	-	
Insulation Resistance	Input-Earth		50	-	-	
	Input-Output	At 500 VDC	50	-	-	MΩ
	Output-Earth		50	-	-	
Operating Temperature			-40	-	+70	
Storage Temperature			-40	-	+85	°C
Operating Humidity		Non-Condensing	-	-	90	
Storage Humidity		Non-Condensing	-	-	95	%RH
Switching Fed	quency		-	100	-	kHz
Operating Temperature Power Derating		-40°C to -25°C	3.34	-	-	
		+45°C to +70°C (115VAC)	2	-	-	%/°C
		+60°C to +70°C (230VAC)	2.5	-	-	
Input Voltage Derating		85VAC to 100VAC	0.67	-	-	%/VAC
Safety Standard			UL62368 1010	}		
Safety Class	ety Class Class I					
MTBF		MIL-HDBK-217F @ 25°C		>300,00	00 hours	

### Regulatory.

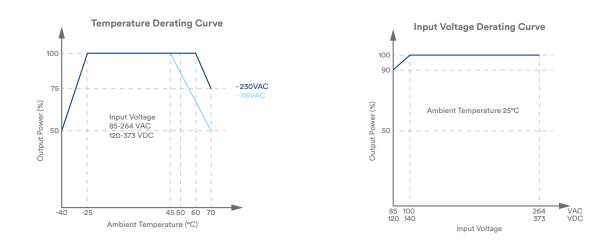
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Emissions	CE	CISPR32/EN55032 Class B
	RE	CISPR32/EN55032 Class B
	Harmonic Current	IEC/EN61000-3-2 Class A & Class D
Immunity	ESD	IEC/EN 61000-4-2 (Contact ±6KV / Air ±8KV)
	RS	IEC/EN 61000-4-3 (10V/m)
	EFT	IEC/EN 61000-4-4 (±2KV)
	Surge	IEC/EN 61000-4-5 (Line - Line ±2KV, Line - GND ±4KV)
	CS	IEC/EN 61000-4-6 (10V r.m.s)
	Voltage Dips, Short Interruptions and Voltage Variations Immunity	IEC/EN 61000-4-11 (0%, 70%)
Traffic		NEMA TS2
Supply Chain		NDAA Compliant

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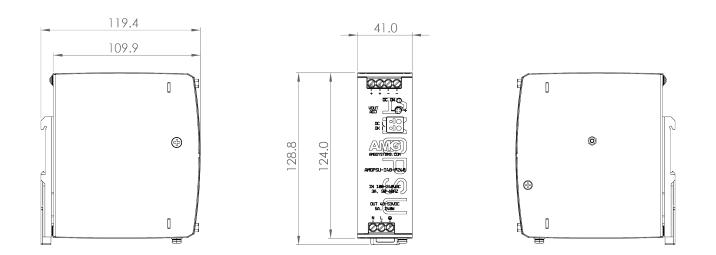
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### Product Dimensions.



## Part Numbers.

240W Industrial DIN-Rail Power Supplies			
AMGPSU-I48-P240	Industrial DIN Rail Power Supply, 48V Nominal Output (48-53V Adjustable), 240W (5A)		
AMGPSU-I48-P240-K	Industrial DIN Rail Power Supply Kit, 48V, 240W (5A), DIN Rail, Mains & DC Cables Included		

### Notes.

Included Accessories:

Region Specific Stripped Power Cord (UK, EU, US), 125mm (5in) DIN Rail, 400mm (16in) DC Power Cable (-K Models Only)

Unless otherwise specified, parameters in this datasheet were measured under the conditions of Ta=25°C. humidity <75% with nominal input voltage and rated output load.

In a continuing effort to improve and advance technology, product specifications are subject to change without notice. Please visit www.amgsystems.com for the latest product specifications.

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