






AMGPSU-I[12,24]-P[24,36] INDUSTRIAL DIN-RAIL 24/36W POWER SUPPLY



Industrial Power Solutions

AMG's industrial DIN-Rail 24/36W power supplies provide reliable power for AMG standard products and ensure stable equipment operation over a wide temperature range. They are suitable for all AMG standard products (depending on voltage).



 PSU 24W 12V	 PSU 36W 24V	 Temp -40~+70°C	 Mounting DIN	 NDAA Compliant
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[AMGPSU Series]

/ OVERVIEW

Designed in a compact, robust DIN rail housing, the AMGPSU-I[12,24]-P[24,36] series industrial power supplies are ideally suited for powering AMG standard Ethernet and analogue fibre transmission equipment. Its wide operating temperature range ensures reliable operation in even the harshest environments.

Available in 12 or 24V output versions ensure the correct power supply is available for any 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, UL62368, 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

- Compact size – ideal for confined spaces, including camera poles and roadside cabinets
- -40°C to +70°C temperature maintains performance in extreme conditions
- DIN rail mountable – quick to install and remove for maintenance
- High efficiency - up to 90% typical
- Universal 85-264V_{AC} or 120-370V_{DC} input range
- Output short circuit, over-current and over-voltage protection included as standard
- High I/O isolation test voltage up to 4000V_{AC}
- Low ripple & noise
- Withstand 300V_{AC} surge input for 5 seconds
- EN62368 & UL safety approved
- AMG 3 Year Support Warranty

Specifications.

Input.

Characteristics	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage Range	AC Input	85	-	264	VAC
	DC Input	120	-	370	VDC
Input Frequency		47	-	63	Hz
Input Current	115VAC	-	-	0.9	A
	230VAC	-	-	0.5	
Inrush Current	115VAC	-	25	-	
	230VAC	-	45	-	
Leakage Current	264VAC	0.25mA RMS max.			
Connector		2-Way Screw Terminal			

Output.

Characteristics	Operating Conditions		Min.	Typ.	Max.	Unit
Output Voltage Accuracy	0% - 100% Load		-	±2	-	%
Line Regulation	Rated Load		-	±0.5	-	
Load Regulation	230VAC		-	±1.5	-	
Output Ripple & Noise	20MHz Bandwidth (peak-to-peak value)	12V Output	-	-	120	mV
		24V Output	-	-	150	
Temperature Coefficient			-	±0.02	-	%/°C
Stand-by Power Consump.	230VAC Input	12V/24V Output	-	-	0.3	W
Short Circuit Protection			Hiccup, Continuous, Self-Recover			
Over-Current Protection			≥120%Io, Self-Recovery			
Over-Voltage Protection	12V Output		≤16V (Output Clamp or Hiccup)			
	24V Output		≤36V (Output Clamp or Hiccup)			
Minimum Load			0	-	-	%
Start-up Delay Time			-	-	3	s
Hold-up Time	115VAC		-	12	-	ms
	230VAC		-	60	-	
Connector			2-Way Screw Terminal			

Note: *The "parallel cable" method is used for ripple and noise test.

Mechanical.

Case Material	Plastic, Heat-Resistant (UL94V-0)
Dimensions	92.7 × 35 × 58 mm (3.65 × 1.38 × 2.28 in) (H x W x D)
Weight	0.115 kg (0.254 lb)
Cooling	Free Air Convection

Specifications.

General.

Characteristics		Operating Conditions	Min.	Typ.	Max.	Unit	
Isolation Test	Input-Output	Electric Strength Test for 1 min., (leakage current <5mA)	4000	-	-	VAC	
Operating Temperature			-40	-	+70	°C	
Storage Temperature			-40	-	+85		
Operating Humidity			-	-	95	%RH	
Storage Humidity			-	-	95	%RH	
Operating Altitude			-	-	2000	m	
Switching Frequency			-	65	-	kHz	
Power Derating		-40°C to -30°C	12V Output	7.0	-	-	% / °C
			24V Output	5.0	-	-	
		+50°C to +70°C		2.5	-	-	
		85VAC - 100VAC		1.0	-	-	% / VAC
Safety Standard			UL62368/EN62368/IEC62368				
Safety Class			Class II				
MTBF		MIL-HDBK-217F @ 25°C	>300,000 hours				

Regulatory.

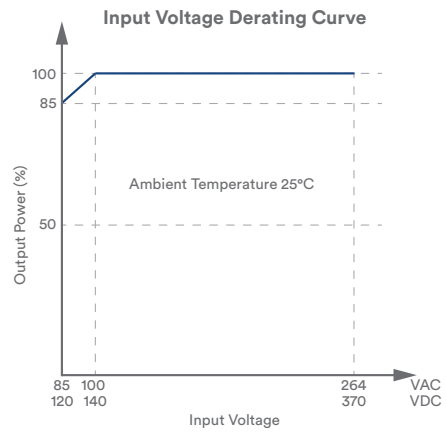
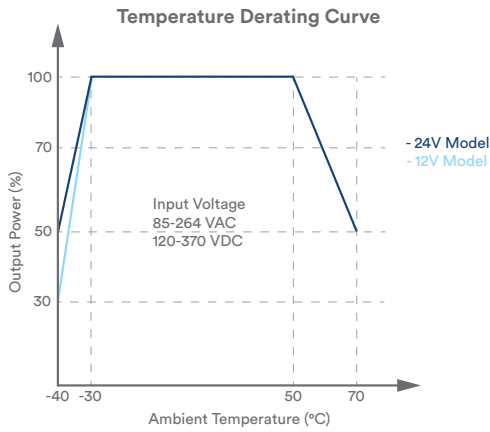
Emissions	CE	CISPR32/EN55032 Class B
	RE	CISPR32/EN55032 Class B
Immunity	ESD	IEC/EN 61000-4-2 (Contact ±6KV / Air ±8KV)
	RS	IEC/EN 61000-4-3 (10V/m)
	EFT	IEC/EN 61000-4-4 (±2KV)
	Surge	IEC/EN 61000-4-5 (Line to Line ±2KV)
	CS	IEC/EN 61000-4-6 (10V r.m.s)
	Voltage Dips, Short Interruptions and Voltage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

Part Numbers.

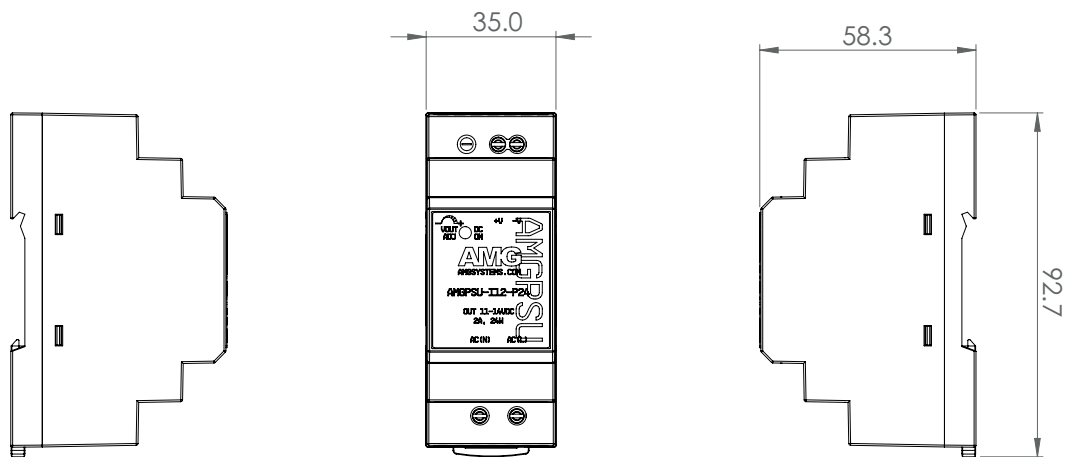
24/36W Industrial DIN-Rail Power Supplies

AMGPSU-I12-P24	Industrial DIN Rail Power Supply, 12V Nominal Output (10.8-13.8V Adjustable), 24W (2A)
AMGPSU-I24-P36	Industrial DIN Rail Power Supply, 24V Nominal Output (21.6-29.0V Adjustable), 36W (1.5A)
AMGPSU-I12-P24-K	Industrial DIN Rail Power Supply Kit, 12V, 24W (2A), DIN Rail, Mains & DC Cables Included
AMGPSU-I24-P36-K	Industrial DIN Rail Power Supply Kit, 24V, 36W (1.5A), DIN Rail, Mains & DC Cables Included

Product Characteristic Curve.



Product Dimensions.



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 $T_a=25^\circ\text{C}$. 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.

