





AMGPSU-T48-P60 INDUSTRIAL DIN-RAIL 60W POWER SUPPLY



Industrial Power Solutions

AMG's industrial DIN-Rail 60W power supplies provide reliable power for AMG standard and PoE based products and ensure stable equipment operation over a wide temperature range. They are suitable for all AMG standard as well as PoE products (depending on voltage).



 PSU 60W 48V (41-55)	 Temp -25~+70°C	 Mounting DIN	 NDAA/TAA Compliant
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[AMGPSU-T48-P60]

OVERVIEW

Designed in a compact, robust DIN rail housing, the AMGPSU-T48-P60 series industrial power supplies are ideally suited for powering AMG standard and PoE Ethernet equipment. Its wide operating temperature range ensures reliable operation in even the harshest environments.

With native 48V output and a user adjustable range of 41-55V ensure the correct power output voltage is available for any PoE based 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 EN61000-6-2 and EN61000-6-3 standards for EMC and are safety approved to UL61010-2-201 and UL1310.

A wide voltage input range that features dual-use inputs for both DC and AC voltages that support 85-305V_{AC} or 95-370V_{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
- -25°C to +70°C temperature maintains performance in extreme conditions
- DIN rail mountable – quick to install and remove for maintenance
- High efficiency - up to 85% typical
- Universal 85-305V_{AC} or 95-370V_{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}
- Power boost to 1.5A (72W) output for ≤3 minutes
- UL61010-2-201 safety approved
- Designed and manufactured in EU (TAA Compliant)
- AMG 3 Year Support Warranty

Specifications.

Input.

Characteristics	Operating Conditions	Min.	Typ.	Max.	Unit
Input Voltage Range	AC Input	85	-	305	VAC
	DC Input	95	-	370	VDC
Input Frequency		45	-	65	Hz
Input Current	115VAC	-	-	1.2	A
	230VAC	-	-	0.65	
Inrush Current	115VAC	-	25	-	
	230VAC	-	25	-	
Connector		2-Way Screw Terminal			
External Circuit Breaker	Recommended	10A curve B or 6A curve C			

Output.

Characteristics	Operating Conditions	Min.	Typ.	Max.	Unit	
Output Voltage Accuracy	0% - 100% Load	-	±2	-	%	
Line Regulation	Rated Load	-	±1	-		
Load Regulation	230VAC	-	±1	-		
Output Ripple & Noise	20MHz Bandwidth (peak-to-peak value)	-	-	100	mV	
Stand-by Power Consump.	230VAC Input	12V Output	-	-	0.3	W
Short Circuit Protection		Hiccup, Continuous, Self-Recover				
Over-Temp Protection		Hiccup, Shutdown, Self-Recover				
Over-Current Protection		150%Io typical 200ms Self-Recovery				
Over-Voltage Protection	12V Output	65V (Shutdown o/p Voltage)				
Minimum Load		0	-	-	%	
Start-up Delay Time		-	-	1	s	
Hold-up Time	115VAC	-	>15	-	ms	
	230VAC	-	>30	-		
Connector		4-Way Screw Terminal				

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

Mechanical.

Case Material	Polycarbonate, Heat-Resistant (UL94V-0)
Dimensions	90 × 54 × 55 mm (3.54 × 2.13 × 2.17 in) (H x W x D)
Weight	0.20 kg (0.44 lb)
Cooling	Free Air Convection
Protection Rating	IP20 (EN 60529)

Specifications.

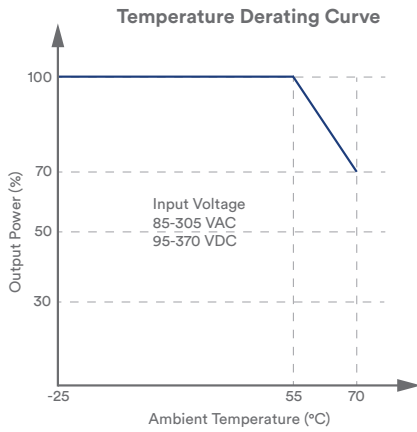
General.

Characteristics		Operating Conditions	Min.	Typ.	Max.	Unit
Isolation Test	Input-Output	Electric Strength Test for 1 min., (leakage current <5mA)	4000	-	-	VAC
	Input-Earth		2000	-	-	
	Output-Earth		500	-	-	
Operating Temperature			-25	-	+70	°C
Storage Temperature			-40	-	+85	
Operating Humidity		Non-Condensing	10	-	95	%RH
Storage Humidity		Non-Condensing	10	-	95	%RH
Power Derating		+55°C to +70°C	2	-	-	%/°C
Safety Standard			UL61010-2-201 / UL1310			
Safety Class			Class II			
MTBF		IEC 61709 @ 40°C	>980,000 hours			
Vibration		IEC 60068-2-6	<15Hz amplitude ±2.5mm 2.5mm <15Hz-150Hz 2.3G 90 min.			
Shock		IEC 60068-2-6	30g in all directions			

Regulatory.

Emissions	CE	EN 61000-6-3
Immunity	ESD	EN 61000-4-2
	RS	EN 61000-4-3
	EFT	EN 61000-4-4
	Surge	EN 61000-4-5
	CS	EN 61000-4-6
	PFMF	EN 61000-4-8
	Voltage Dips, Short Interruptions and Voltage Variations Immunity	EN 61000-4-11
Traffic		Designed To Meet NEMA TS2
Supply Chain		NDAA & TAA Compliant

Product Characteristic Curve.



Part Numbers.

60W Industrial DIN-Rail Power Supplies

AMGPSU-T48-P60	Industrial DIN Rail Power Supply, 48V Nominal Output (41-55V Adjustable), 60W (1.25A)
AMGPSU-T48-P60-K	Industrial DIN Rail Power Supply Kit, 48V, 60W (1.25A), DIN Rail, Mains & DC Cables Included*

* 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.