

AMG2023

48-55V_{DC}, 30W Power Supply



Industrial Power Supplies

The AMG2023 Power Supply is a 48-55V_{DC}, 30W PoE/PoE+ Power Supply which is suitable for all AMG Industrial Ethernet Media Converters with PoE.



PSU 30W 48-55VDC	Temp -40~+71°C	Mounting DIN

[AMG2023]

/ OVERVIEW

AC - DC DIN Rail mountable 30W Class 2 Output.

/ FEATURES

- AC/DC Power Module
- Universal Input 85~264V_{AC}
- High Efficiency - up to 89%
- Short Circuit Protection
- Internal Input Filter
- DIN Rail Mountable

Specifications.

All specifications typical at nominal line full load, 25°C unless otherwise noted.

General.

Characteristics	Conditions	Min	Typ.	Max
Isolation Voltage	Input/Output	3000V _{AC}		
Isolation Resistance	Input/Output @500V _{DC}	100MΩ		
Ambient Temperature	Operating at Vi nom.	-40		+71°C
Derating	Vi nom from +61°C to +71°C			2.5%/°C
Storage Temperature	N on operational	-25		+85°C
Relative Humidity	Vi nom, Io nom	20		90% RH
Dimension (W x D x H)	40.5 x 115 x 90 mm			
Cooling	Free air convection			
Case Material	Plastic			

Input Specifications.

Characteristics	Conditions	Min	Typ.	Max
Rated Input Voltage	IO nom	100		240V _{AC}
Input Voltage Range	Ta min... Ta max	AC in 85		264V _{AC}
	IO nom	DC in 90		375V _{DC}
Line Frequency	Vi nom, IO nom	47		63Hz
Inrush Current	IO nom	Vi: 115V _{AC}		30A
		Vi: 230V _{AC}		60A

Output Specifications.

Characteristics	Conditions	Min	Typ.	Max
Output Voltage Accuracy	Vi nom, IO min...Io nom			±1%
Minimum Load	Vi nom	0%		
Line Regulation	IO nom, Vi min...Vi max			0.5%
Load Regulation	Vi nom, IO min...Io nom			0.5%
Turn On Time	After AC is applied to Input at full resistive load			1000ms
Voltage Fall Time	IO nom, Vo = 95% ~ 10% rated voltage			150ms
Voltage Rise Time	At full resistive load			150ms
Hold Up Time	Vi = 115VAC, IO nom	20ms		
	Vi = 230VAC, IO nom	30ms		
Ripple & Noise	Vi nom, IO nom, BW=20MHz			50mV
Voltage Trim Range	Vi nom, Wo = 60W max	48		55V _{DC}
DC On Indicator Threshold at Start Up	Vi nom, IO nom	37V _{DC}		
Efficiency	Vi nom, IO nom, Po/Pi	86%		89%

Specifications.

Control and Protection.

Characteristics	Conditions	Min	Typ.	Max
Rated Over Load Protection	V_i nom	110		150%
Over Voltage Protection	V_i nom, IO nom	60		$66V_{DC}$
Output Short Circuit	V_i nom	Fold Forward		

Approvals and Standards.

UL / cUL	UL508 Listed UL1310 Class 2 Power Supply (5V, 12V w/o class 2), UL60950-1 Recognised
TUV	EN60950-1
CE	EN61000-6-3, EN55022 Class B EN61000-3-2, EN61000-3-3 EN61000-6-2, EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11

Part Numbers.

AMG2023	48V-56V _{DC} , 30W, DIN-Rail mounting, -40°C to +61°C, power derated between 61°C & 71°C
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Notes.

