

# AMG2034

## 4U RETRACTABLE 19-INCH RACK CHASSIS WITH SINGLE OR DUAL REDUNDANT PSU









### Industrial 19inch Racks

The AMG2034 is a 4U retractable rack chassis for standard 19 inch racks. The chassis allows for mounting up to 10x AMG units. Dual redundant PSU's are available with up to 100W of 12V<sub>DC</sub> or 1000W of 56V<sub>DC</sub> power available allowing both PoE & non-PoE units to be mounted.



[ AMG2034-1256-RP-AD (Individual units not included) ]

					
PSU 12V 100W	PSU 56V 1000W	Contacts 1x Fault	Temp -40~+70°C	Mounting Rack	PSU x2 Dual

#### OVERVIEW

The AMG2034 rack chassis supports all AMG as well as 3rd party DIN rail products and provides an easy to install and maintain solution for mounting DIN rail equipment in 19inch racks and cabinets. Its short depth even allows for installation in small wall mounted 19inch rack enclosures and its heavy duty slide out mechanism ensures maximum ease of installation and future maintenance.

Each rack chassis features removable screw terminal connections for up to 10 devices (depending on product width) and occupies only 4U of rack space within the equipment cabinet offering a simple and elegant rack mount solution for space restricted installations.

The AMG2034 chassis can be ordered without any power supplies as a pure mounting system only or with fully integrated single or dual redundant mains power supplies with both 12V<sub>DC</sub> and 56V<sub>DC</sub> outputs available to support PoE and non-PoE enabled equipment and supports hot-swappable replacement of any DIN rail mounted units.

The single or dual integrated power supplies support a wide 90-264V<sub>AC</sub> input range and provide 12V<sub>DC</sub> @ 100W and/or 56V<sub>DC</sub> @ 1000W to power the installed units.

#### FEATURES

- Up to 10 positions for AMG or 3rd party products\*
- 19inch standard rack-mount size 4U high
- Fully integrated power supply options with 100W @ 12V<sub>DC</sub> and/or 1000W @ 56V<sub>DC</sub>
- Single or dual 90-264V<sub>AC</sub> mains power inputs
- LED indication for power supply operation to aid installation and system fault diagnosis
- Compatible with any AMG or 3rd party DIN rail mountable products
- Fault relay for notification of power supply failure
- Integrated cable management features ensure a clean installation
- Manufactured in the United Kingdom
- AMG Lifetime Support Warranty

\* Total number of available positions will depend on equipment width. 10 positions refers to the number of power connectors available.

# Specifications.

## Interface.

LED Indicators	2x Power 1x Fault
Capacity	10 Positions* 394mm Available Width
DIN Rail	3x 130mm Sections Each With 3 User Configurable Heights
Power Input:	
AA Models	2x IEC C14 Sockets
AD Models	1x IEC C14 Socket + 1x 4-Way Barrier Terminal
DD Models	1x 4-Way Barrier Terminal
Power Output:	
12V <sub>DC</sub>	10x 2-Way 3.81mm Screw Terminal Connectors
56V <sub>DC</sub>	10x 2-Way 5.08mm Screw Terminal Connectors
Fault Relay	1x 2-Way Barrier Terminal
Earth Connection	1x M5 Stud

## Power.

Power Inputs	1 or 2
Operating Voltage:	
Mains Input	90-264V <sub>AC</sub> , 47~63Hz or 120-370V <sub>DC</sub>
12V <sub>DC</sub> Input	12V <sub>DC</sub>
56V <sub>DC</sub> Input	56V <sub>DC</sub>
Input Current:	
Mains Input 12V PSU	3A (115V <sub>AC</sub> ) / 1.5A (230V <sub>AC</sub> )
Mains Input 56V PSU	12A (115V <sub>AC</sub> ) / 6A (230V <sub>AC</sub> )
DC Input 12V	8.5A Max
DC Input 56V	18A Max
Efficiency:	
12V <sub>DC</sub> PSU	>87.5%
56V <sub>DC</sub> PSU	>94%
Output:	
12V <sub>DC</sub> Output	10x 12V <sub>DC</sub> , 100W Max
56V <sub>DC</sub> Output	10x 56V <sub>DC</sub> , 1000W Max
Fault Relay	Form A 60V @ 2A Max

## Packaging.

Shipping Weight:	1.55kg /3.42lb (Plus Unit Weight As Shown In Right Hand Column)
Dimensions	(W x D x H) 554 x 481 x 284 mm 21.81 x 18.94 x 11.18 in

## Environmental.

Operating Temp.	-40°C to +70°C
Storage Temp.	-40°C to +85°C
Humidity	20% to 90% (non-condensing)
MTBF	>250,000 hours
MTBF Standard	MIL-HDBK-217F GB25
Heat Dissipation:	
12V <sub>DC</sub> PSU Models	341 BTU/h (excluding individual units)
56V <sub>DC</sub> PSU Models	3412 BTU/h (excluding individual units)
Cooling:	
12V <sub>DC</sub> PSU Models	Passive Cooling
56V <sub>DC</sub> PSU Models	2x Cooling Fans (Temp Controlled)
Noise Level	Right to Left Airflow 0 dBA (12V <sub>DC</sub> PSU Models) TBD dBA (56V <sub>DC</sub> PSU Models)

## Mechanical.

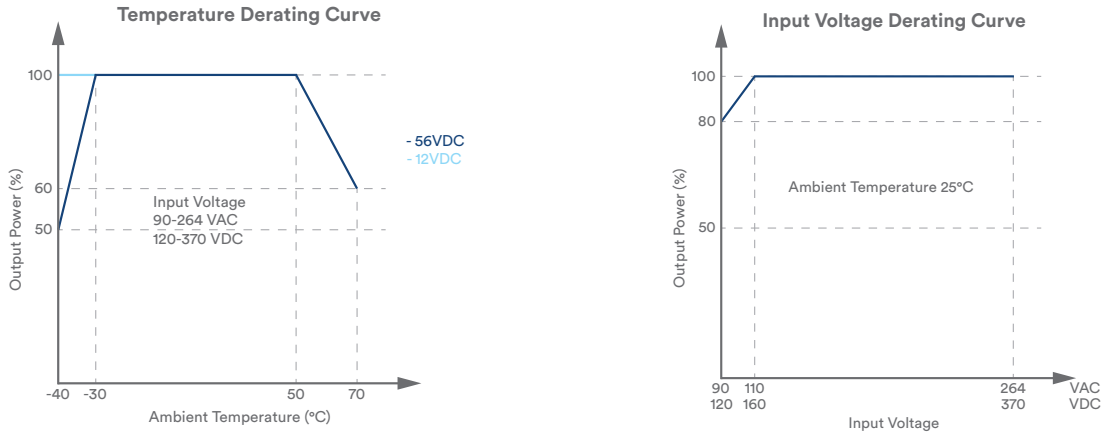
Housing	Aluminium
Dimensions:	(W x D x H)
In Closed Position	482 x 342 x 178 mm 18.98 x 13.46 x 7.01 in
In Open Position	482 x 587 x 178 mm 18.98 x 23.11 x 7.01 in
Installation	19inch Rack (4U)
Weight:	
AMG2034	2.65kg /5.84lb
DD Models	3.65kg /8.05lb
12V AA Model	4.3kg /9.48lb
12V AD Model	4.0kg /8.82lb
56V AA Model	6.2kg /13.67lb
56V AD Model	4.9kg /10.8lb
12/56V AD Model	5.25kg /11.57lb

## Regulatory.

Safety	IEC/UL/EN 62368-1
EMI	EN55032 Class B CISPR32 Class B
EMS	EN61000-3-2 Class A EN61000-3-3 (56V <sub>DC</sub> PSU Models Only) EN61000-4-2 (ESD) EN61000-4-3 (RS) EN61000-4-4 (EFT) EN61000-4-5 (Surge) EN61000-4-6 (CS) EN61000-4-11 (Dips)
Environmental	Reach, RoHS, WEEE

\* Total number of available positions will depend on equipment width.  
10 positions refers to the number of power connectors available.

# Product Characteristic Curve.



## Part Numbers.

### 4U Retractable Rack Chassis With No PSU

AMG2034	4U Retractable Rack, No PSU Included
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### 4U Retractable Rack Chassis With 12V<sub>DC</sub> Integrated PSU's

AMG2034-12-RP-AA	4U Retractable Rack, Dual 12V <sub>DC</sub> Integrated PSU's
AMG2034-12-RP-AD	4U Retractable Rack, Single 12V <sub>DC</sub> Integrated PSU + Single 12V <sub>DC</sub> External Input
AMG2034-12-RP-DD	4U Retractable Rack, Dual 12V <sub>DC</sub> External Inputs

### 4U Retractable Rack Chassis With 56V<sub>DC</sub> Integrated PSU's


AMG2034-56-RP-AA	4U Retractable Rack, Dual 56V <sub>DC</sub> Integrated PSU's
AMG2034-56-RP-AD	4U Retractable Rack, Single 56V <sub>DC</sub> Integrated PSU + Single 56V <sub>DC</sub> External Input
AMG2034-56-RP-DD	4U Retractable Rack, Dual 56V <sub>DC</sub> External Inputs

### 4U Retractable Rack Chassis With 12V<sub>DC</sub> & 56V<sub>DC</sub> Integrated PSU's

AMG2034-1256-RP-AD	4U Retractable Rack, Single 12 & 56V <sub>DC</sub> Integrated PSU's + Single 12 & 56V <sub>DC</sub> External Inputs
AMG2034-1256-DD	4U Retractable Rack, Single 12 & 56V <sub>DC</sub> External Inputs

## Notes.

Included Accessories: 1 or 2 x region specific locking line cords (UK / EU / US plug type, depending on region)  
 Also available with AUS plug type in non-locking version  
 10 x 140mm power connection cables for 12V<sub>DC</sub> and/or 56V<sub>DC</sub> (model dependant)

Proud to be a British Manufacturer 

*In a continuing effort to improve and advance technology, product specifications are subject to change without notice. Please visit [www.amgsystems.com](http://www.amgsystems.com) for the latest product specifications.*