

# AMG2013

## 47-56V<sub>DC</sub>, 480W Power Supply



## Industrial Power Supplies

The AMG2013 Power Supply is a 47-56V<sub>DC</sub>, 480W PoE/PoE+ Power Supply which is suitable for all AMG Industrial Ethernet Switches with up to 16x PoE+ ports.



PSU 480W 47-56VDC	Temp -40~+71°C	Mounting DIN

[ AMG2013 ]

### / OVERVIEW

AC - DC DIN Rail mountable 480W Class 2 Output.

### / FEATURES

- AC/DC Power Module
- Universal Input 90~264V<sub>AC</sub>
- High Efficiency - up to 90%
- Short Circuit Protection
- Internal Input Filter
- DIN Rail Mountable

# Specifications.

## General.

Isolation Voltage	3000V <sub>AC</sub> Input to ground 1500V <sub>AC</sub> Input to ground 500V <sub>AC</sub> Output to ground
Switching Frequency	80kHz
Operating Temperature	-40 to +71°C
Derating	Linearly from +55°C at 2.5%/°C, start up at -35°C
Cooling	Free air convection cooled with 25mm free space on all sides
Operating Humidity	20 to 90% RH, non-condensing
Storage Temperature	-40 to +85°C
Dimension (W x D x H)	175 x 116 x 125 mm
Cooling	Free air convection
Case Material	Metal

## Input Specifications.

Input Voltage	90-264V <sub>AC</sub> , auto select, 120-375V <sub>DC</sub>
Input Frequency	47-63Hz
Input Current	
115V <sub>AC</sub>	4.9A
230V <sub>AC</sub>	2.5A
Inrush Current	25/50A at 115/230V <sub>AC</sub>
Power Factor	0.9 typical
Earth Leakage Current	0.8mA max
Input Protection	T10A, 250V <sub>AC</sub>

## Output Specifications.

Output Voltage	48V
Output Voltage Trim	47-56V <sub>DC</sub>
Initial Set Accuracy	±1%
Minimum Load	No minimum load required
Start Up Delay	<1s (may increase in low temperature extremes)
Start Up Rise Time	<150ms
Hold Up Time	25/30ms at 115/230V <sub>AC</sub>
Line Regulation	±0.5% max
Load Regulation	±1% (±5% for units in parallel)
Parallel Operation	A maximum of 3 units can be paralleled (not with standby system). Total power available is 90% of the rated current of each unit. Minimum load per unit is 10%.
Transient Response	4% max deviation recovering to within 1% in 2ms for a 50% load change
Ripple and Noise	100mVpk-pk 20MHz bandwidth (may increase at low temperature extremes)
Overvoltage Protection	Output Clamps at 125%-140% V <sub>nom</sub> , auto recovery
Overload Protection	105%-145% constant current, auto recovery
Temperature Coefficient	±0.03%/°C
Efficiency	90% typical

# Specifications.

## Approvals and Standards.

UL / cUL

UL508 Listed

TUV

UL1310 Class 2 Power Supply (5V, 12V w/o class 2), UL60950-1 Recognised

CE

EN60950-1

EN55022 Class B

EN61000-3-2, EN61000-3-3

EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6,

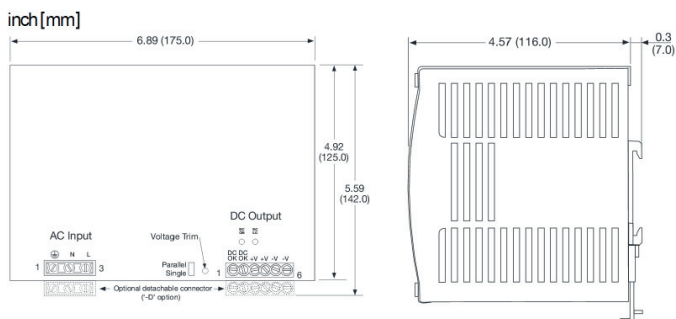
EN61000-4-8, EN61000-4-11

## Part Numbers.

AMG2013

47V-56V<sub>DC</sub>, 480W, DIN-Rail mounting, -40°C to +55°C, power derated between 55°C & 71°C

## Notes.



## DERATING

