

# AMG2012

## 47-56V<sub>DC</sub>, 240W Power Supply



## Industrial Power Supplies

The AMG2012 Power Supply is a 47-56V<sub>DC</sub>, 240W PoE/PoE+ Power Supply which is suitable for all AMG Industrial Ethernet Switches with up to 8x PoE+ ports.



PSU 240W 47-56VDC	Temp -40~+71°C	Mounting DIN

[ AMG2012 ]

### / OVERVIEW

AC - DC DIN Rail mountable 240W 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 +60°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)	83 × 111.3 × 125 mm
Cooling	Free air convection
Case Material	Metal

## Input Specifications.

Input Voltage	90-132/180-264V <sub>AC</sub> , auto select, 210-375V <sub>DC</sub>
Input Frequency	47-63Hz
Input Current	
115V <sub>AC</sub>	4A
230V <sub>AC</sub>	1.55A
Inrush Current	30/60A at 115/230V <sub>AC</sub>
Power Factor	0.7 typical
Earth Leakage Current	0.8mA max
Input Protection	T6.3A, 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.

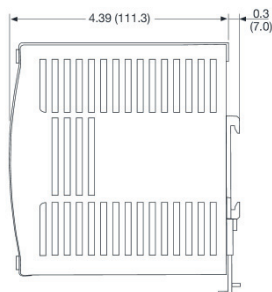
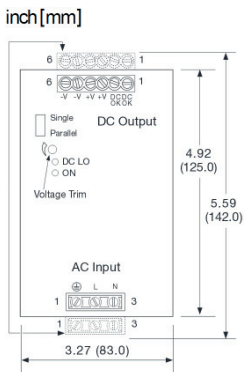
## Approvals and Standards.

UL / cUL	UL508 Listed UL1310 Class 2 Power Supply (5V, 12V w/o class 2), UL60950-1 Recognised
TUV	EN60950-1
CE	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.

AMG2012	47V-56V <sub>DC</sub> , 240W, DIN-Rail mounting, -40°C to +60°C, power derated between 60°C & 71°C
---------	--

## Notes.



## DERATING

