TRIAD MAGNETICS

Switch Mode Power Supplies
Single Output
AC/DC Power Supply

AEU65-360



Description:
The AEU65-360 is a single output power supply. This power supply is designed for a wide variety applications where high reliability is desired, including applications for the industrial and telecommunications markets. Excellent performance specifications are provided, together with compliance to European EMC (EN55022, Class B and EN61000-3-2), and Low Voltage directive.

Specifications (@25C)

Input Characteristics:

Input Voltage:	90-264VAC, 127-373VDC
Input Frequency Range:	47-63Hz
Input Current:	1.6A @ 115VAC, 0.8A @ 230VAC typ.
Max Inrush Current:	30A@115VAC, 60A@230VAC at cold start
Leakage Current:	<2.4mA/240Vac

Output Characteristics:

Output Voltage:	36.0VDC±1.5%Vdc
Output Current (Convection):	0-1.81A
Output Power (Convection):	65W
Adjustable Output Range:	34.2 – 37.8V. Output voltage can be adjusted at VR51
Ripple & Noise[1]:	300mVp-p
Load Regulation:	±0.5%
Line Regulation:	±0.5%
Efficiency:	87.5%
Start-up Time:	1000ms/230VAC, 2000ms/115VAC, full load
Rise-up Time:	30ms/230VAC, 30ms/115VAC, full load
Hold-up Time:	24ms/230VAC, 12ms/115VAC, full load
Over Current Protection:	110 – 160%. Hiccup mode. Resets automatically once the fault condition is removed.
Over Voltage Protection:	41.4 – 48.6VDC.

General Specifications:

Dimension (LxWxH):	110(4.3) x 78(3.1) x 35.0(1.38) mm (in)
Weight:	200g
Cooling:	Natural Convection
Isolation Resistance:	I/P—O/P, I/P—FG, O/P—FG: 500VDC/100M Ohms
Dielectric Strength:	I/P—O/P:4.3KVDC; I/P—FG:1.5KVAC; O/P—FG:0.5KVAC
Warranty:	3 years
MTBF:	250K hrs. min. MIL-HDBK-217F (25°C)

Environmental Specifications:

Operating Temperature:	-20° to 50°C at full load (Refer to output load derating curve)
Operating Humidity:	20 to 90% RH, non-condensing
Storage Temperature:	-40 to 85°C
Storage Humidity:	10 to 95% RH, non-condensing
Temperature Drift:	<0.03%/°C (0-50°C)
Vibration:	10-500Hz, 2G 10min/cycle, period of 60min, each X, Y & Z axis

EMC & Safety Specifications[2]:

EMI Emissions:	Compliance to EN55022, CISPR22 Class B (Conducted & Radiated)
Harmonic Current:	Compliance to EN61000-3-2, 3
EMS Immunity:	Compliance to EN61000-4-2, 3-6, 8 & 11; EN55024 heavy, light industry level, criteria A
Safety Approval:	UL 60950-1, (insulation class -1)

[1] Ripple and noise are measured at 20MHz of bandwidth by using a 12" twisted-pair wire termination with a 0.1uF & 47uF parallel capacitors.

[2] The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

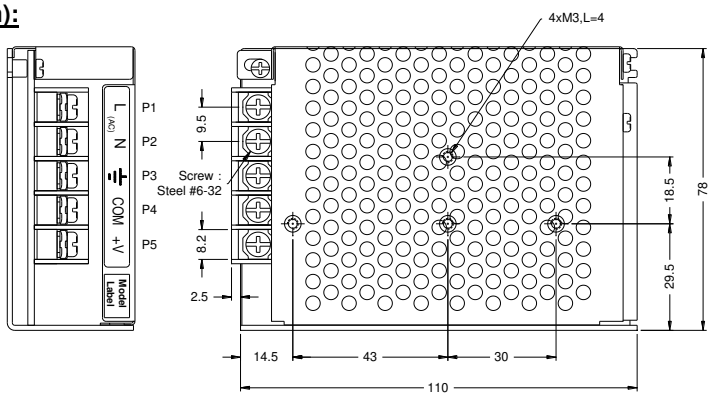
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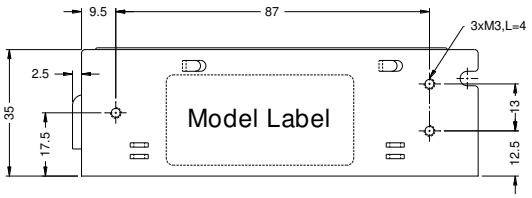
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Outline Dimensions (mm):





NOTE :
1. All I/O connection shall
   Follow specified Model Label.
2. Temp =+50°C (max) at full load.

Connections:

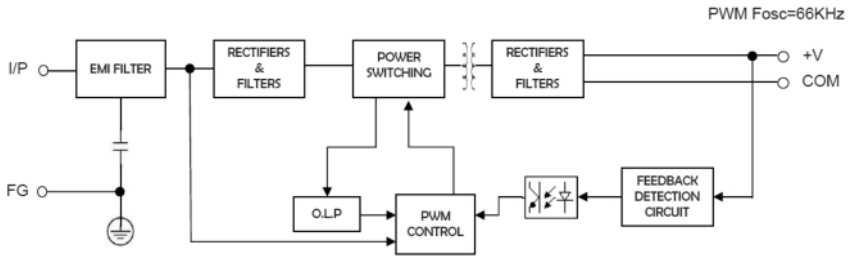
AC Input Connector

	Assignment
P1	AC/L
P2	AC/N
P3	FG

DC Output Connector

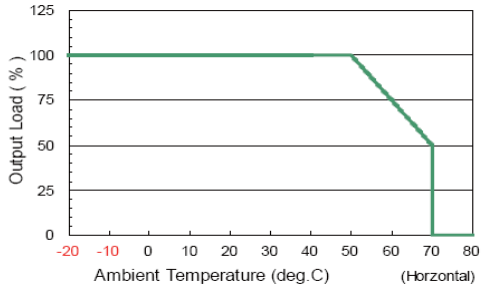
	Assignment
P4	COM
P5	V+

Block Diagram:

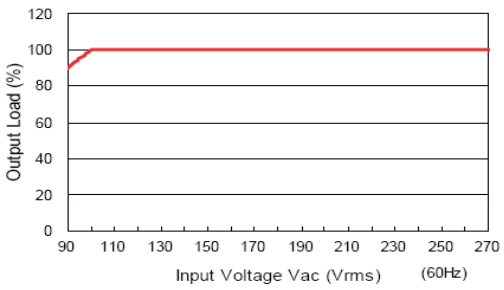


Derating Curve:

■Output Derating VS Ambient Temperature :
(HORIZONTAL MOUNTING)



■Output Derating VS Input Voltage :



RoHS Compliance: As of manufacturing date February 2016, all standard products meet the requirements of 2015/863/EU, known as the RoHS 3 initiative.

* Upon printing, this document is considered “uncontrolled”. Please contact Triad Magnetics’ website for the most current version.

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