

## Excellent Integrated System Limited

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[Triad Magnetics](#)

[AEU65-033](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)



**Switch Mode Power Supplies**  
**Single Output**  
**AC/DC Power Supply**

## AEU65-033

### Description:

The AEU65-033 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 (TUV EN60950).

### 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:	3.3VDC±2.0%Vdc
Output Current (Convection):	0-10A
Output Power(Convection):	33W
Adjustable Output Range:	3.15 – 3.45V. Output voltage can be adjusted at VR51
Ripple & Noise <sup>1</sup> :	50mVp-p
Load Regulation:	±2.0%
Line Regulation:	±0.5%
Efficiency:	81.0%
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:	3.80 – 4.45VDC.

#### General Specifications:

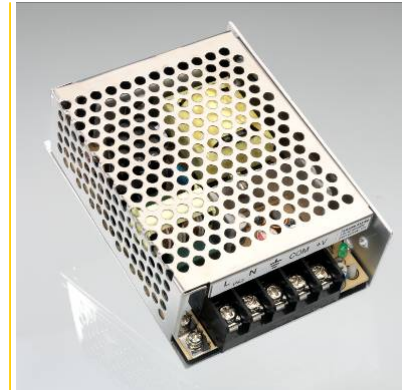
Dimension (LxWxH):	99(3.9) x 75(3.0) x 35.0(1.38) mm (in)
Weight:	200g
Cooling:	Natural Convection
Isolation Resistance:	I/P—O/P, I/P—FG, O/P—FG: 500VDC/100M Ohms
Dielectric Strength:	I/P—O/P:3KVAC; I/P—FG:1.5KVAC; O/P—FG:0.5KVAC
Warranty:	3 years
MTBF:	250K hrs. min. MIL-HDBK-217F (25°C)

#### 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<sup>2</sup>:

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, TUV EN60950-1 (insulation class -1)



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

<sup>2</sup> 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.

Web: [www.TriadMagnetics.com](http://www.TriadMagnetics.com)  
 Phone 951-277-0757  
 Fax 951-277-2757

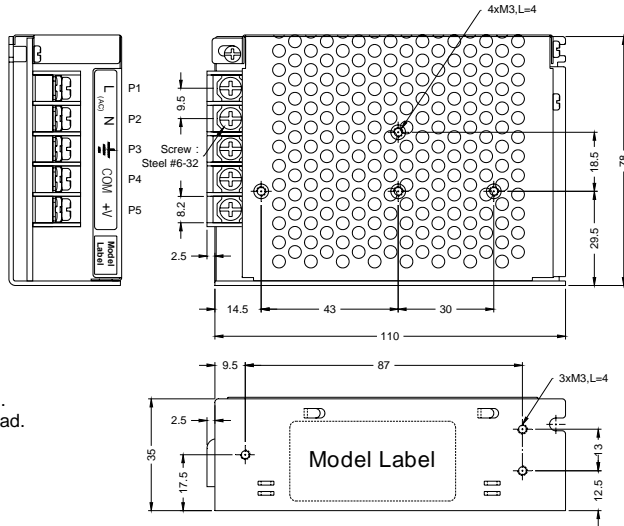
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 Perris, California 92571

Publish Date: December 4, 2013



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**Outline Dimensions (mm):**



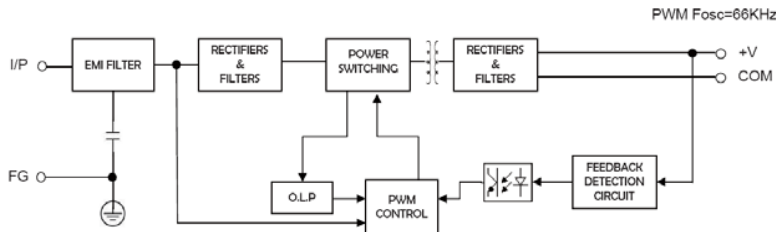
- NOTE :**
1. All I/O connection shall Follow specified Model Label.
  2. Temp =+50°C (max) at full load.

**Connections:**

AC Input Connector	Assignment
P1	AC/L
P2	AC/N
P3	FG

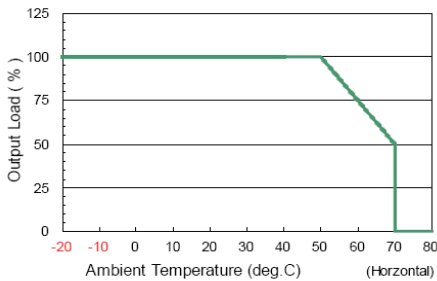
DC Output Connector	Assignment
P4	COM
P5	V+

**Block Diagram:**

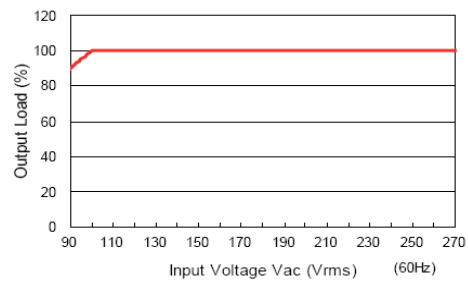


**Derating Curve:**

**Output Derating VS Ambient Temperature : (HORIZONTAL MOUNTING)**



**Output Derating VS Input Voltage :**



**RoHS Compliance:** As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

\* Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics' website for the most current version.

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