

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 & Noise¹: | 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:

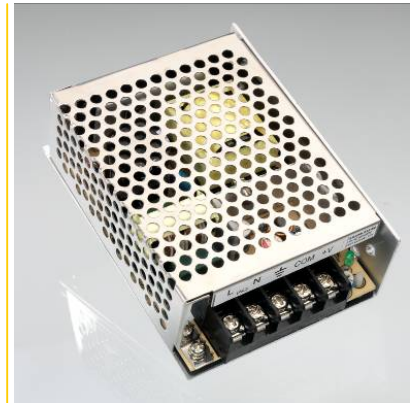
| | |
|------------------------------|---|
| Dimension (LxWxH): | 99(3.9) x 75(3.0) x 35.0(1.38) mm (in) |
| Weight: | 200g |
| Cooling: | Natural Convection |
| Isolation Resistance: | I/P—O/P, I/P—FG, O/P—FG: 500VDC/100M Ohms |
| Dielectric Strength: | I/P—O/P:3KVAC; I/P—FG:1.5KVAC; O/P—FG:0.5KVAC |
| 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 Specifications²:

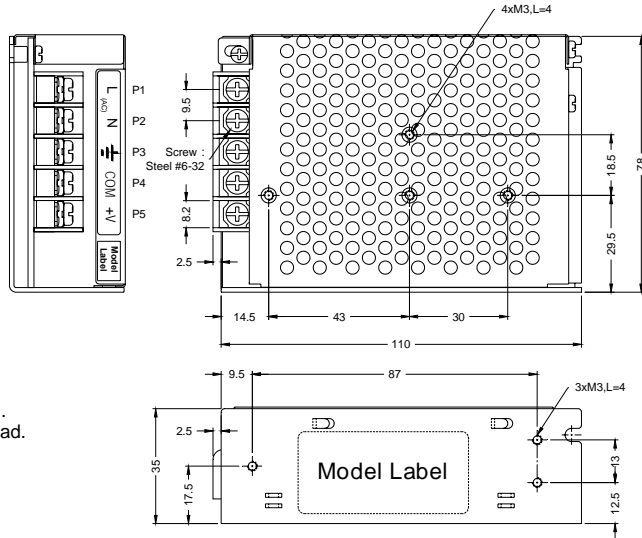
| | |
|--------------------------|---|
| EMI Emissions: | Compliance to EN55022,CISPR22 Class B (Conducted & Radiated) |
| Harmonic Current: | Compliance to EN61000-3-2, 3 |
| EMS Immunity: | Compliance to EN61000-4-2, 3-6, 8 & 11; EN55024 heavy, light industry level, criteria A |
| Safety Approval: | UL 60950-1, TUV EN60950-1 (insulation class -1) |



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.

Outline Dimensions (mm):



NOTE :

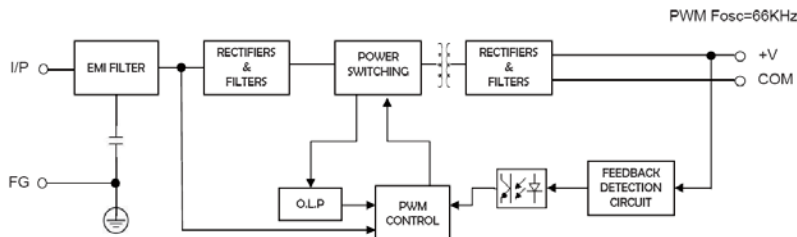
1. All I/O connection shall Follow specified Model Label.
2. Temp = +50°C (max) at full load.

Connections:

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

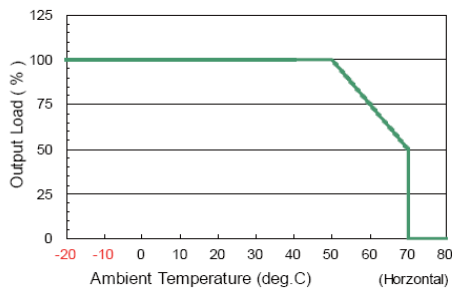
| DC Output Connector | |
|---------------------|-----|
| Assignment | |
| P4 | COM |
| P5 | V+ |

Block Diagram:

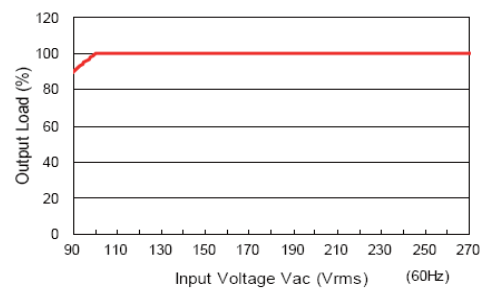


Derating Curve:

■ 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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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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