

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 $\pm$ 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 ¹ :	50mVp-p
Load Regulation:	$\pm$ 2.0%
Line Regulation:	$\pm$ 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:

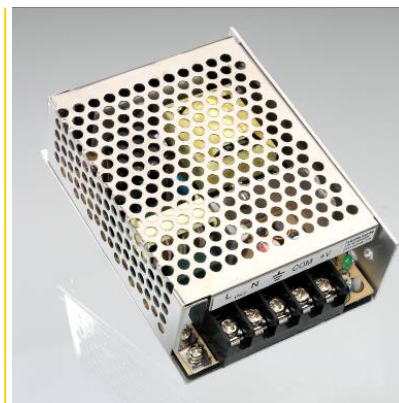
Dimension (LxWxH):	99(3.9) x 75(3.0) x 35.0(1.38) mm (in)
Weight:	200g
Cooling:	Natural Convection
Isolation Resistance:	I/P—O/P, I/P—FG, O/P—FG: 500VDC/100M Ohms
Dielectric Strength:	I/P—O/P:3KVAC; I/P—FG:1.5KVAC; O/P—FG:0.5KVAC
Warranty:	3 years
MTBF:	250K hrs. min. MIL-HDBK-217F (25°C)

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.

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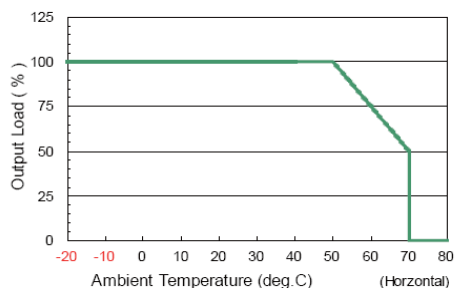
1. All I/O connection shall Follow specified Model Label.
2. Temp = +50°C (max) at full load.

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

DC Output Connector	
P4	COM
P5	V+

PWM Fosc=66KHz

■Output Derating VS Ambient Temperature : (HORIZONTAL MOUNTING)



Input Voltage Vac (Vrms)	Output Load (%)
90	90
100	95
110	100
120	100
130	100
140	100
150	100
160	100
170	100
180	100
190	100
200	100
210	100
220	100
230	100
240	100
250	100
260	100
270	100

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

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