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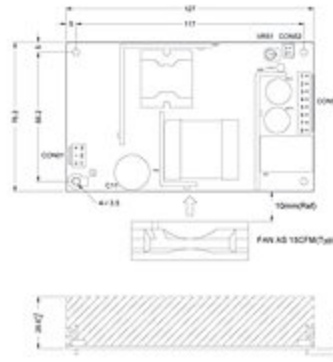
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## ITEM # ABU125-540, 53.2 TO 58.8 VOLT (V) ADJUSTABLE OUTPUT VOLTAGE RANGE ABU 125 SERIES SWITCH MODE POWER SUPPLY

The ABU125-540 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).

Single Output AC/DC Power Supply with PFC.



[Input Characteristics \(at 25 °C\)](#) | [Output Characteristics \(at 25 °C\)](#) | [General Specifications \(at 25 °C\)](#) | [Environmental Specifications \(at 25 °C\)](#) | [EMC and Safety Specifications \(at 25 °C\)](#) | [Specifications](#) | [Note](#)

### Input Characteristics (at 25 °C)

<b>Alternating Current (AC) Input Voltage</b>	90 to 264 V
<b>Direct Current (DC) Input Voltage</b>	127 to 373 V
<b>Input Frequency Range</b>	47 to 63 Hz
<b>Input Current at 115 VAC</b>	1.6 A

<b>Input Current at Typical 230 VAC</b>	0.8 A
<b>Maximum Inrush Current at 115 VAC for Cold Start</b>	30 A
<b>Maximum Inrush Current at 230 VAC for Cold Start</b>	60 A
<b>Power Factor at 230 VAC for Full Load</b>	> 0.95
<b>Power Factor at 115 VAC for Full Load</b>	> 0.98
<b>Leakage Current at 240 VAC</b>	< 2.4 mA

### Output Characteristics (at 25 °C)

<b>Direct Current (DC) Output Voltage</b>	54 V
<b>Direct Current (DC) Voltage Tolerance</b>	±2.0 %
<b>Output Current (15 CFM Fan)</b>	0 to 1.96 A
<b>Output Current (Convection)</b>	0 to 1.6 A
<b>Output Power (15 CFM Fan)</b>	106 W
<b>Output Power (Convection)</b>	87 W
<b>Adjustable Output Voltage Range<sup>1</sup></b>	53.2 to 58.8 V
<b>Ripple and Noise Voltage at Peak to Peak<sup>2</sup></b>	240 mV
<b>Load Regulation</b>	±1.0 %
<b>Line Regulation</b>	±0.5 %
<b>Efficiency</b>	88.0 %

<b>Start-Up Time at 230 VAC for Full Load</b>	1800 ms
<b>Start-Up Time at 115 VAC for Full Load</b>	3600 ms
<b>Rise-Up Time at 230 VAC for Full Load</b>	30 ms
<b>Rise-Up Time at 115 VAC for Full Load</b>	30 ms
<b>Hold-Up Time at 230 VAC for Full Load</b>	14 ms
<b>Hold-Up Time at 115 VAC for Full Load</b>	14 ms
<b>Overcurrent Protection<sup>3</sup></b>	2.86 to 3.9 A
<b>Direct Current (DC) Over Voltage Protection</b>	64 to 75 V
<b>Output Type</b>	Constant Voltage

## General Specifications (at 25 °C)

<b>Length</b>	127 mm 5.0 in
<b>Width</b>	76.2 mm 3.0 in
<b>Height</b>	27.0 mm 1.05 in
<b>Weight</b>	300 g
<b>Cooling</b>	Natural Convection or Fan at 15 CFM
<b>Isolation Resistance at 500 VDC (Input (I/P) - Output (O/P))</b>	100 MO
<b>Isolation Resistance at 500 VDC (Input (I/P) - Floating Gate (FG))</b>	100 MO

<b>Isolation Resistance at 500 VDC (Output (O/P) - Floating Gate (FG))</b>	100 MO
<b>Alternating Current (AC) Dielectric Strength (Input (I/P) - Output (O/P))</b>	3 kV
<b>Alternating Current (AC) Dielectric Strength (Input (I/P) - Floating Gate (FG))</b>	1.5 kV
<b>Alternating Current (AC) Dielectric Strength (Output (O/P) to Floating Gate (FG))</b>	0.5 kV
<b>Warranty</b>	3 years
<b>Mean Time Between Failure (MTBF) per MIL-HDBK-217F (25 °C)</b>	> 200 Khr

#### Environmental Specifications (at 25 °C)

<b>Operating Temperature<sup>4</sup></b>	-40 to 70 °C
<b>Non-Condensing Relative Operating Humidity</b>	20 to 90 %
<b>Storage Temperature</b>	-40 to 85 °C
<b>Non-Condensing Relative Storage Humidity</b>	10 to 95 %
<b>Temperature Drift (0 to 50 °C)</b>	< 0.04 %/°C
<b>Vibration</b>	10 to 500 Hz, 2G 10 min/cycle, period of 60 min, each X, Y & Z axis

#### EMC and Safety Specifications (at 25 °C)

<b>EMI Emissions</b>	Compliance to EN55022, CISPR22 Class B (Conducted & Radiated)
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<b>Harmonic Current</b>	Compliance to EN61000-3-2, 3
<b>EMS Immunity</b>	Compliance to EN61000-4-2, 3-6, 8 & 11; EN55024 heavy, light industry level, criteria A
<b>Safety Approval</b>	TUV EN60950-1 (Insulation Class -1) UL 60950-1
<b>Note for EMC and Safety Specifications at 25 °C</b>	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. EMC and Safety Agency certs pending.

## Specifications

<b>RoHS Compliance</b>	As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.
<b>Industry Standards</b>	CB CE MIL-HDBK-217F RoHS TUV UL

## Note

<b>Note</b>	1. All I/O connection shall Follow specified Model Label.
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<sup>1</sup> Output voltage can be adjusted at VR51.

<sup>2</sup> Ripple and noise are measured at 20 MHz of bandwidth by using a 12 Inch (in) twisted-pair wire termination with a 0.1  $\mu$ F and 47  $\mu$ F parallel capacitors.

<sup>3</sup> Hiccup mode. Resets automatically once the fault condition is removed.

<sup>4</sup> Refer to output load derating curve.