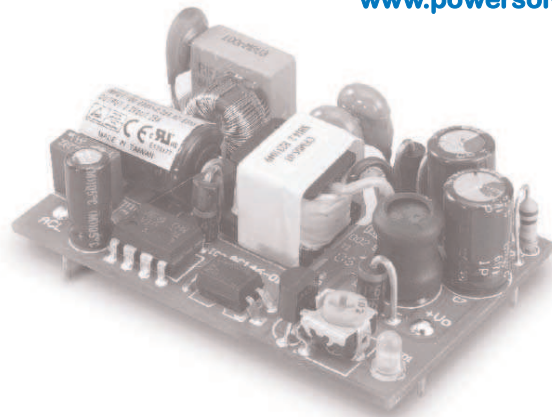


AC-DC Converter



www.powersolve.co.uk

CFM05 Series 5 Watt Open Frame Single Output



Features

- Universal input range 85-264Vac
- Efficiency to 80%
- Meets EN55022 Class B
- Continuous short circuit protection
- Low leakage current 0.25mA max.
- PCB mountable

Electrical Specification

Input Voltage Range	85 - 264Vac
Frequency	47 - 63Hz
Inrush Current	40A max. @ 240Vac
Conducted EMI	CISPR/FCC Class B
Isolation - Input/Output	4242VDC
Leakage Current	0.25mA max.
Hold-up Time	8mS typ. @ 115Vac
Short Circuit Protection	Continuous
Temperature Coefficient	±0.05% / °C
Operating Temperature Range	0°C to +70°C at full load (above +70°C derate linearly to 0% load at +85°C)
Storage Temperature Range	-20°C to +85°C
Safety Approvals	cUL/UL 60950, TUV EN60950
Cooling	Natural convection
Dimensions	55.0 x 35.0 x 21.0 mm (2.165 x 1.378 x 0.827 inches)
Weight	35g

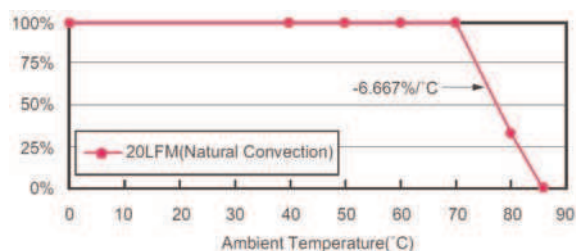
Output Voltage and Current Ratings

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT		RIPPLE (mV pk-pk)	VOLTAGE ACCURACY	LINE REG.	LOAD REG.	% EFF.
		Min.	Max.					
CFM05S033	3.3V	0A	1.25A	50mV	±1%	±0.5%	±1%	70%
CFM05S050	5.0V	0A	1.0A	50mV	±1%	±0.5%	±1%	73%
CFM05S120	12.0V	0A	0.42A	120mV	±1%	±0.5%	±1%	79%
CFM05S150	15.0V	0A	0.33A	150mV	±1%	±0.5%	±1%	79%
CFM05S240	24.0V	0A	0.23A	240mV	±1%	±0.5%	±1%	80%
CFM05S090	9.0V	0A	0.55A	90mV	±1%	±0.5%	±1%	78%
CFM05S180	18.0V	0A	0.28A	180mV	±1%	±0.5%	±1%	79%

NOTE:

1. Output noise and ripple measured with 10µF tantalum & 0.1µF ceramic capacitors across output.
2. Line regulation is measured from 100Vac to 240Vac at full load.
3. Load regulation is measured from 10% to 100% of full load.

Derating Curve



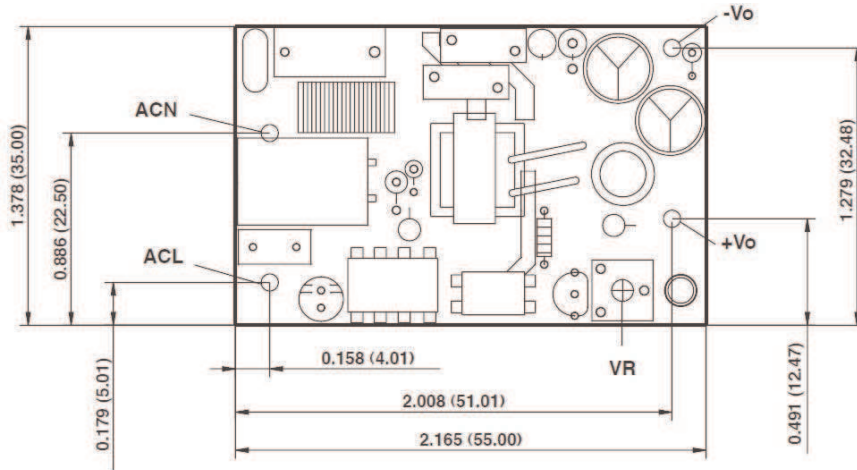
Typical at 25°C, nominal line and 75% load unless otherwise stated.

AC-DC Converter



www.powersolve.co.uk

Mechanical and Connection Details



All dimensions in inches (mm)
Tolerances: Inches x.xxx ±0.02
Millimeters x.xx ±0.5

