

# AC-DC Converter

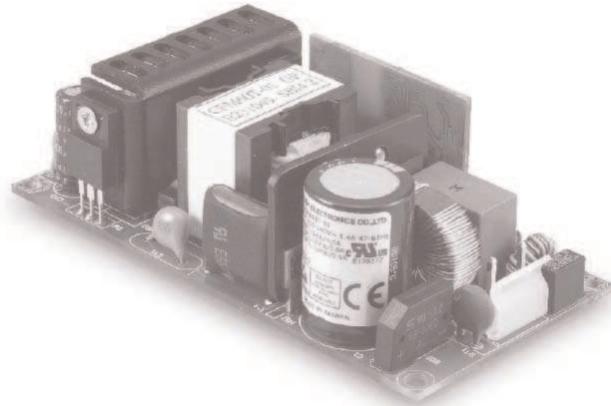


## CFM60T Series 60 Watt Open Frame Triple Output

[www.powersolve.co.uk](http://www.powersolve.co.uk)

### Features

- Universal input range 90-264Vac
- 2" x 4" (50.8 x 101.6mm) size
- Industry standard pin outs
- Efficiency to 83%
- Meets CISPR/FCC Class B, conducted
- Continuous short circuit protection



### Electrical Specification

#### INPUT

Input Voltage Range	90 - 264Vac
Frequency	47 - 63Hz
Inrush Current	50A max. @ 240Vac
	Cold start @ 25°C
Conducted EMI	CISPR/FCC Class B
Isolation - Input/Output	4242VDC
Leakage Current	3.5mA max.

#### OUTPUT

Hold-up Time	8mS typ. @ 115Vac
Short Circuit Protection	Continuous
Temperature Coefficient	±0.05% / °C
Over voltage Protection	Auto recovery

#### ENVIRONMENTAL

Operating Temperature Range	0°C to 50°C
Storage Temperature Range	-20°C to +85°C
Cooling	Natural convection
Safety Approvals	cUL/UL 60950, TUV EN60950

#### GENERAL

Dimensions	101.6 x 50.8 x 32.0 mm 4.0 x 2.0 x 1.26 inches
Weight	170g

### Output Voltage and Current Ratings

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT			RIPPLE (mV pk-pk)	VOLTAGE ACCURACY	LINE REG.	LOAD REG.	OUTPUT POWER max.	% EFF.
		Min.	Rated	Max.						
CFM60T-01	V1 = 5V	0A	4.0A	5.0A	50mV	±2%	±1%	±4%	62W	83%
	V2 = 12V	0A	3.0A	3.7A	120mV	±5%	±1%	±3%		
	V3 = -12V	0A	0.5A	0.65A	120mV	±5%	±1%	±5%		
CFM60T-02	V1 = 5V	0A	4.0A	5.0A	50mV	±2%	±1%	±4%	62W	83%
	V2 = 15V	0A	2.5A	3.1A	150mV	±4%	±1%	±3%		
	V3 = -15V	0A	0.3A	0.5A	150mV	±5%	±1%	±5%		
CFM60T-03	V1 = 5V	0A	4.0A	5.0A	50mV	±2%	±1%	±4%	62W	83%
	V2 = 24V	0A	1.5A	1.8A	240mV	±3%	±1%	±3%		
	V3 = -12V	0A	0.5A	0.6A	120mV	±5%	±1%	±5%		
CFM60T-04	V1 = 3.3V	0A	6.0A	7.5A	50mV	±4%	±1%	±5%	40.8W	78%
	V2 = 5V	0A	3.0A	3.7A	50mV	±5%	±1%	±4%		
	V3 = -12V	0A	0.5A	0.65A	120mV	±5%	±2%	±5%		

#### NOTE:

1. Voltage accuracy is measured at 60% rated load.
2. Output noise and ripple measured with 10µF tantalum & 0.1µF ceramic capacitors across output.
3. Line regulation is measured from 103Vac - 127Vac & 207Vac - 253Vac at rated load.
4. Load regulation is defined by changing Output1 load from 20-100% of rated with other loads at 60% of rated.

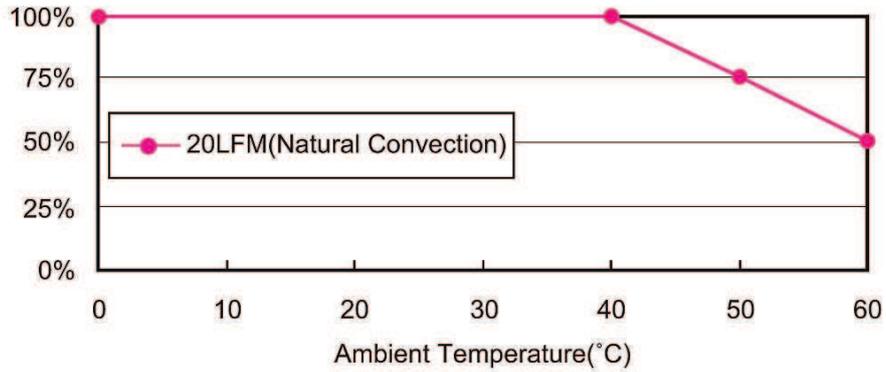
Typical at 25°C, nominal line and 75% load unless otherwise stated.

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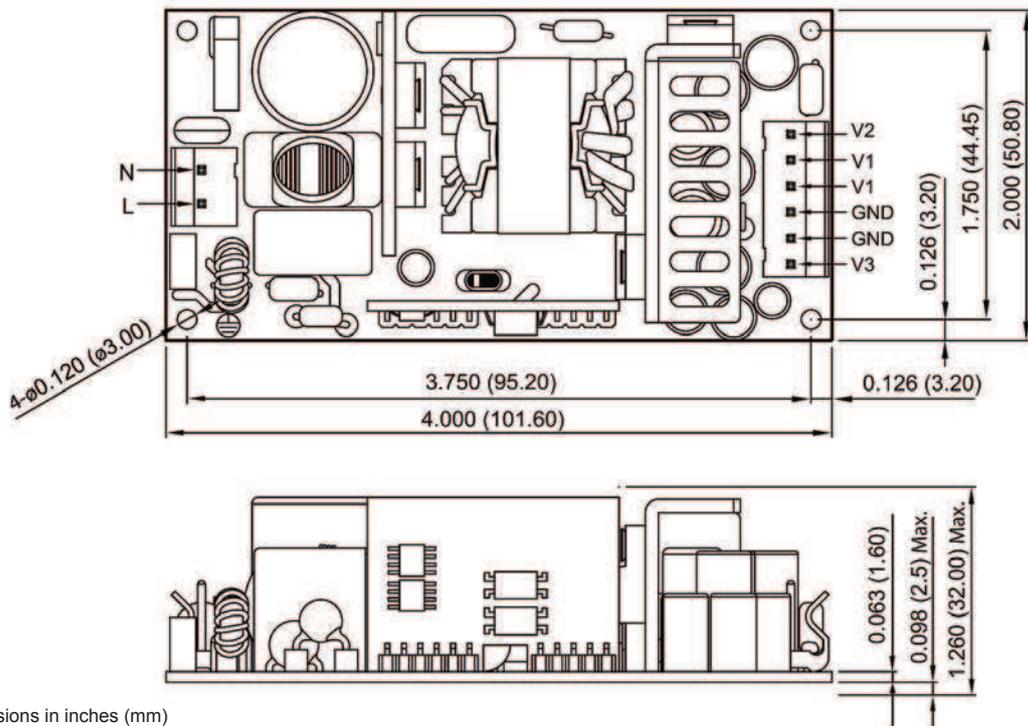


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## Derating Curve



## Mechanical and Connection Details



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