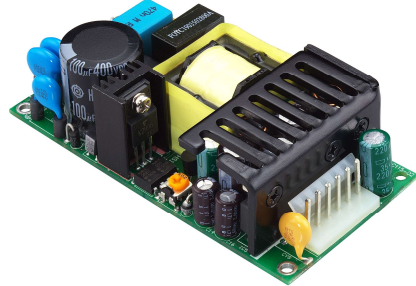


## CFM-40 Series

### 40 Watt Open Frame AC-DC Modules

#### Features

- 40W single output
- Universal input 90 - 264Vac
- Molex connectors
- 2" x 4" Size
- Efficiency up to 87%
- Continuous short circuit protection
- Over voltage protection
- Operating altitude 2000m
- Safety EN62368-1 pending
- Meets EN55032 Class B and  
CISPR/FCC Class B



Model	Output Voltage	Output Current	Ripple & Noise	Voltage Accuracy	Line Regulation	Load Regulation	Output Power	EFF typ.
CFM-40S033	3.3V	6 A	50mV	±1%	±0.5%	±1%	20 W	70%
CFM-40S050	5.0V	6 A	1%	±1%	±0.5%	±1%	30 W	76%
CFM-40S090	9.0V	4.45 A	1%	±1%	±0.5%	±1%	40 W	84%
CFM-40S120	12V	3.34 A	1%	±1%	±0.5%	±1%	40 W	85%
CFM-40S150	15V	2.67 A	1%	±1%	±0.5%	±1%	40 W	85%
CFM-40S240	24V	1.67 A	1%	±1%	±0.5%	±1%	40 W	85%
CFM-40S300	30V	1.33 A	1%	±1%	±0.5%	±1%	40.W	86%
CFM-40S360	36V	1.11 A	1%	±1%	±0.5%	±1%	40 W	87%
CFM-40S480	48V	0.83 A	1%	±1%	±0.5%	±1%	40 W	87%

# Ordering Information

## CFM-40Sxxx-

Y

xxx = output voltage  
033 = 3.3Vdc  
120 = 12.0Vdc  
etc.

Blank: open frame  
P: PCB mounted  
C: with cover

# Specifications

Typical at 25°C, 230VAC and full load, unless otherwise specified

## Input Specifications:

Input voltage ..... 90 –264Vac  
..... 120 – 370Vdc  
Input voltage operating ..... 100 – 240Vac  
Input current..... max 1.2Arms at 100Vac  
Frequency ..... 47 to 63Hz  
Inrush current, cold start@25°C ..... 55A Max. @240Vac  
Leakage current ..... 1mA typ.

## Output Specifications:

Voltage accuracy ..... see product table  
Line regulation<sup>(3)</sup> ..... ±0.5%  
Load regulation<sup>(4)</sup> ..... ±1%  
Hold-up time ..... @ 115V ..... 8ms typ.  
Over current protection ..... 110% - 140%  
Short circuit protection ..... hiccup mode, auto recovery  
Over voltage protection ..... TVS diode to clamp

## General Specifications

Operating Temperature ..... 0 to 70°C  
Storage Temperature ..... -40 to 85°C  
Cooling ..... natural convection  
Humidity ..... 93% RH max. non condensing  
Switching frequency..... 66kHz typ.  
MTBF ..... MIL-HDBK-217F, GB, 25°C..... > 350khrs  
Altitude..... 2000m

## Isolation

Input to output..... 4'250Vac  
Isolation resistance ..... 100MΩ

## Mechanical Characteristics:

Dimensions  
..... open frame: ..... 101.6 x 50.8 x 30.5mm  
..... -P: ..... 101.6 x 50.8 x 32.4mm  
..... covered: ..... 117.0 x 63.0 x 40.0mm  
Weight ..... open frame: ..... 170g  
..... -P: ..... 1680g  
..... covered: ..... 210g

## Safety

..... Class I, IEC/EN/UL 62368-1, Ed 3.0

## EMC:

Emission ..... EN 55032: 2015+A11: 2020, Class B  
..... FCC CFR 47 Part 15 Subpart B  
..... EN 61000-6-3:2007+A1:2011+AC:2012  
..... EN 61204-3:2018  
..... IEC61000-3-2:2019, IEC61000-3-3:2013+A1:2019

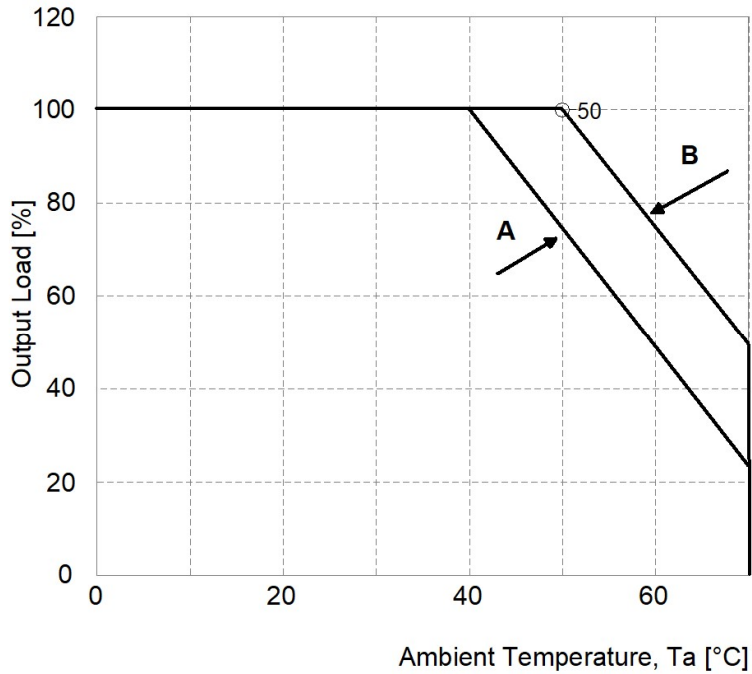
Immunity ..... EN 55035:2017+A11:2020  
..... EN 61204-3:2018  
..... EN 61000-6-1:2019  
..... IEC61000-4-2, 3, 4, 5, 6, 8, 11

## Note:

1. Add a 0.1uF ceramic capacitor and a 47uF E.L. capacitor to output for Ripple &Noise measuring @20MHz BW.
2. Voltage accuracy is set at 60% rated load and 25°C.Ta.
3. Line regulation is measured from High Line to Low Line with rated load.
4. Load regulation is measured at 60%±40% rated.
5. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
6. Output connector mates with Molex housing 09-50-3061 and Molex 2878 series crimp terminal.
7. Safety approvals do not apply to the covered versions, only to the open-frame versions.

# CFM-40S Series Derating Curves

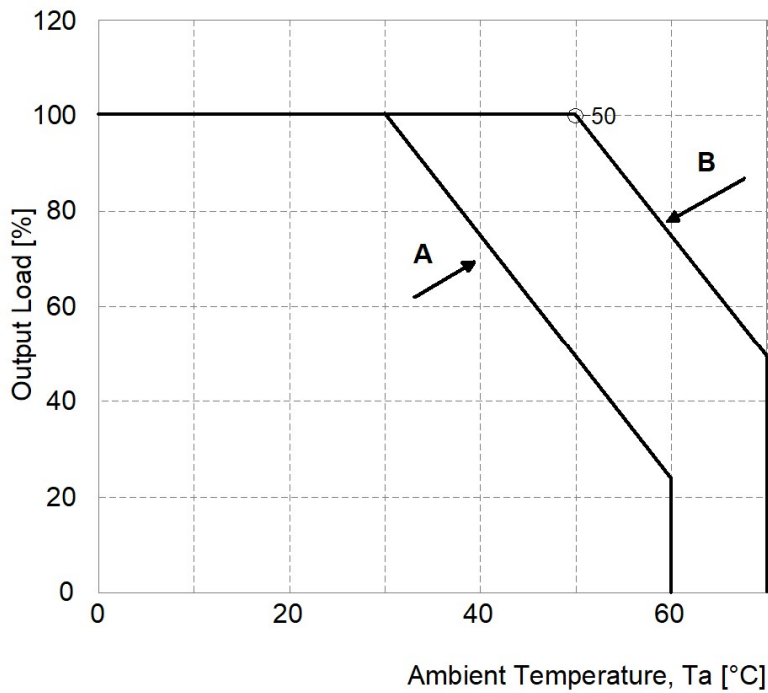
## Open frame versions:



Natural Convection 0.1m/s

A: 3.3V / 5.0V / 9.0V models  
B: other models

## Covered versions:



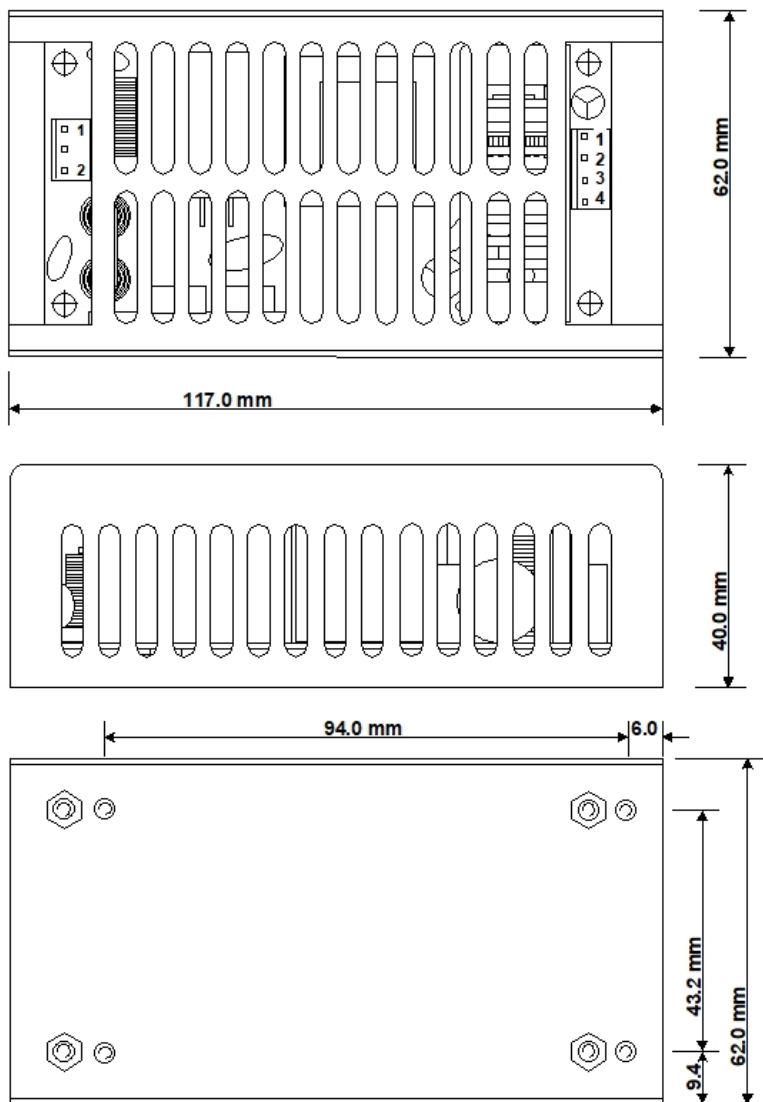
Natural Convection 0.1m/s

A: 3.3V / 5.0V models  
B: other models



# CFM-40S Series Dimension

Option -C: with cover



Input	
1	ACN
2	ACL
Output	
1	+Vout
2	+Vout
3	-Vout
4	-Vout

# Own notes

Notice: All statements, technical information and recommendations related to FABRIMEX's products are based on information believed to be reliable, but the accuracy or completeness thereof is not guaranteed. Before utilizing the product, the user should determine the suitability of the product for its intended use. Specifications can be changed any time without notice.

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The logo for EXISTA, featuring the word "EXISTA" in a bold, sans-serif font. The letters "E", "X", "I", and "S" are in a dark blue color, while the letters "T", "A", and "A" are in a lighter, teal color.