

CFM-21S Series

20 Watt Single Output with Options for
PCB mount (Blank)
Connector (-T)
Screw Terminal (-S)
Encapsulated (-E)



Features

Universal Input Range 90-264VAC
 Miniature Size, Low Profile 0.8"
 Industry-Standard Pin Out
 Efficiency to 85%
 Continuous Short Circuit Protection
 Over Voltage Protection
 No load input power < 0.3W
 Leakage Current < 0.1mA



UL60601-1/IEC60601-1/EN60601-1 Medical safety
 Meets UL60950-1/IEC60950-1/EN60950-1 ITE safety
 EN55022 Class "B" and CISPR/FCC Class B, Conducted
 EN55024



Model	Output voltage	Max. load	Min. load	Ripple & Noise	Voltage accuracy	Line regulation	Load regulation	Efficiency (Typ.)
CFM-21S033	3.3V	4.0A	0A	50mV	±1%	±0.5%	±1%	75 %
CFM-21S050	5V	4.0A	0A	50mV	±1%	±0.5%	±1%	80 %
CFM-21S090	9V	2.3A	0A	90mV	±1%	±0.5%	±1%	81 %
CFM-21S120	12V	1.7A	0A	100mV	±1%	±0.5%	±1%	83 %
CFM-21S150	15V	1.4A	0A	100mV	±1%	±0.5%	±1%	84 %
CFM-21S240	24V	0.9A	0A	100mV	±1%	±0.5%	±1%	85 %

SPECIFICATIONS

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

Input Specifications:

Maximum input voltage range AC 80 – 264Vac
 Maximum input voltage range DC 115 – 370Vdc
 Frequency 47 to 63Hz
 Maximum Input current at 100Vac 0.5A
 Inrush Current 40A max. @240Vac
 Isolation Input to output = 5'656 Vdc
 Conducted EMI CISPR/FCC Class B
 Leakage Current 0.1mA max.

Weight Blank: ... 50gr
 -T: ... 55gr
 -S: ... 55gr
 -E: . 105gr

Safety:

..... Class II
 IEC 60601-1:2006+A1:2013+A12:2014+A2:2021

Output Specifications:

Voltage accuracy ±1%
 Holdup Time 10mS typ. @115Vac
 Line Regulation⁽³⁾ ±0.5%
 Load Regulation⁽⁴⁾ ±1%
 Short Circuit Protection Continuous
 Over Voltage Protection TVS Component to Clamp
 Temperature Coefficient ±0.05%/°C

EMC:

..... EN55032, Class B
 CISPR11 2015+A1: 2016+A2:2021, Class B
 EN IEC 61000-3-2:2018
 EN IEC 61000-3-3:2013+A1:2017

General Specifications: Note:

Isolation input to output..... 5'656Vdc
 Operating Temperature, see derating -25 ~ 70°C
 Storage Temperature -40 ~ 85°C
 Cooling Natural Convection
 Switching Frequency 100KHz Typical
 Humidity 0~93% at 25°C
 MTBF MIL-STD-217F, GB 650K hrs min

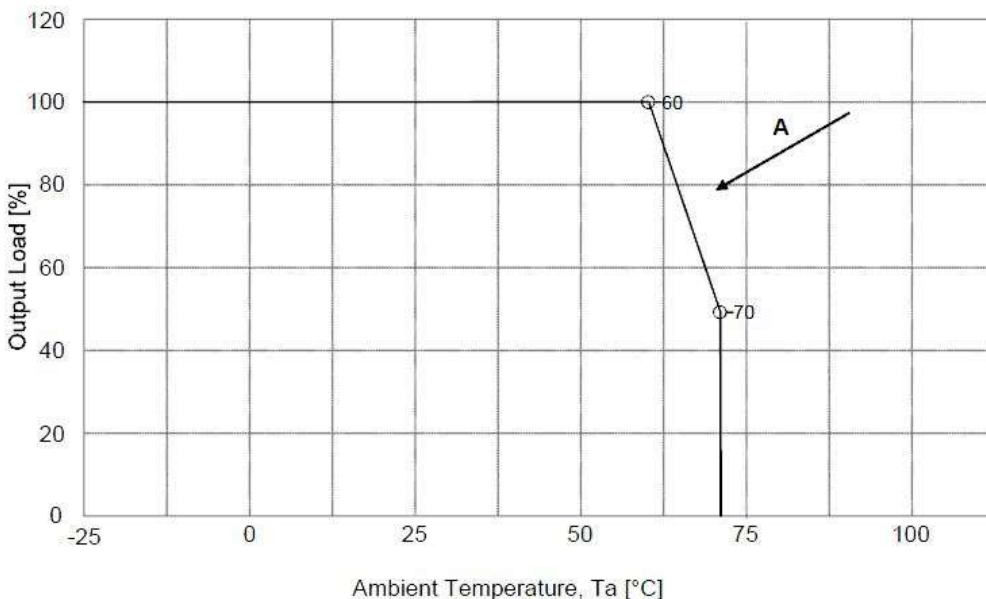
Note:

1. Voltage accuracy is set of 100% rated load.
2. Add a 0.1uF ceramic capacitor and a 10uF capacitor to output for Ripple & Noise measuring @20MHz BW.
3. Line regulation is measured from 100Vac to 240Vac with full load.
4. Load regulation is measured from 10% to 100% full load.
5. T Version Connection: JST B3P-VH / B4P-VH or equivalent.
6. S Version Connectors : DECA MB332-381A or equivalent.

Mechanical Characteristics:

Dimensions Blank: 60.5 x 40.6 x 20.4mm
 -T: ... 76.2 x 40.6 x 19.5mm
 -S: ... 76.2 x 40.6 x 19.5mm
 -E: ... 64.2 x 44.2 x 20.4mm

CFM-21S Series Derating Curve

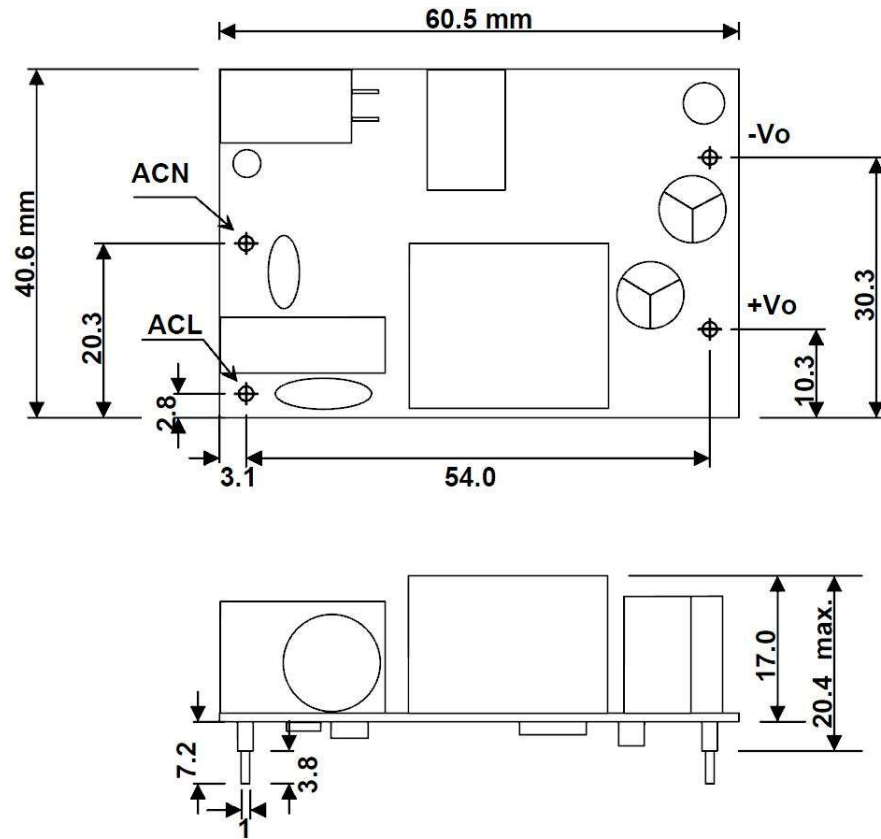


A : Natural Convection 0.1m/s

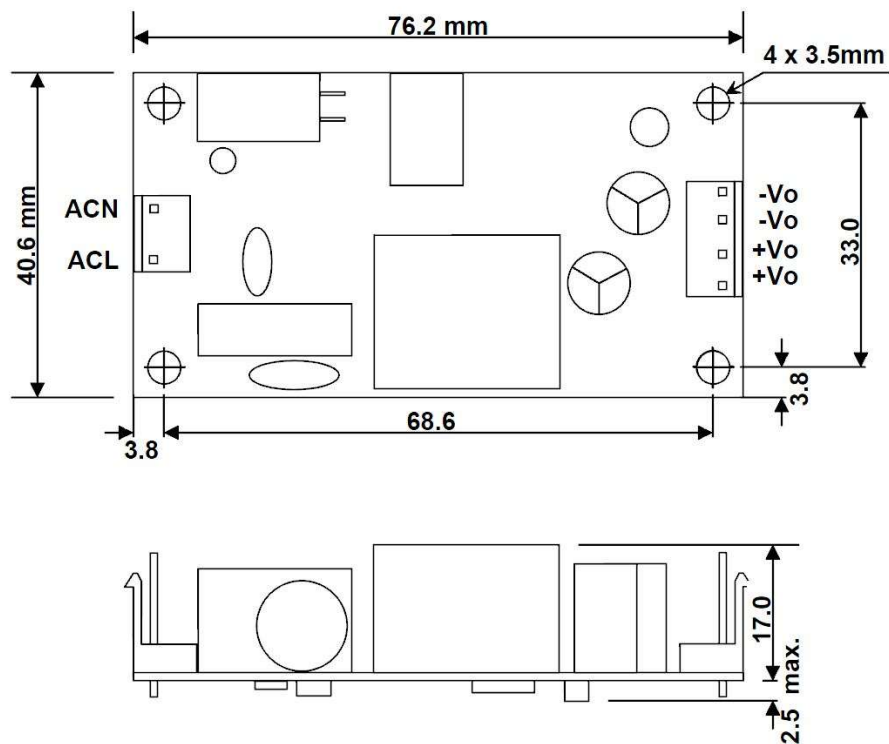
CFM-21S Series Drawings

All Dimensions in mm

Option Blank

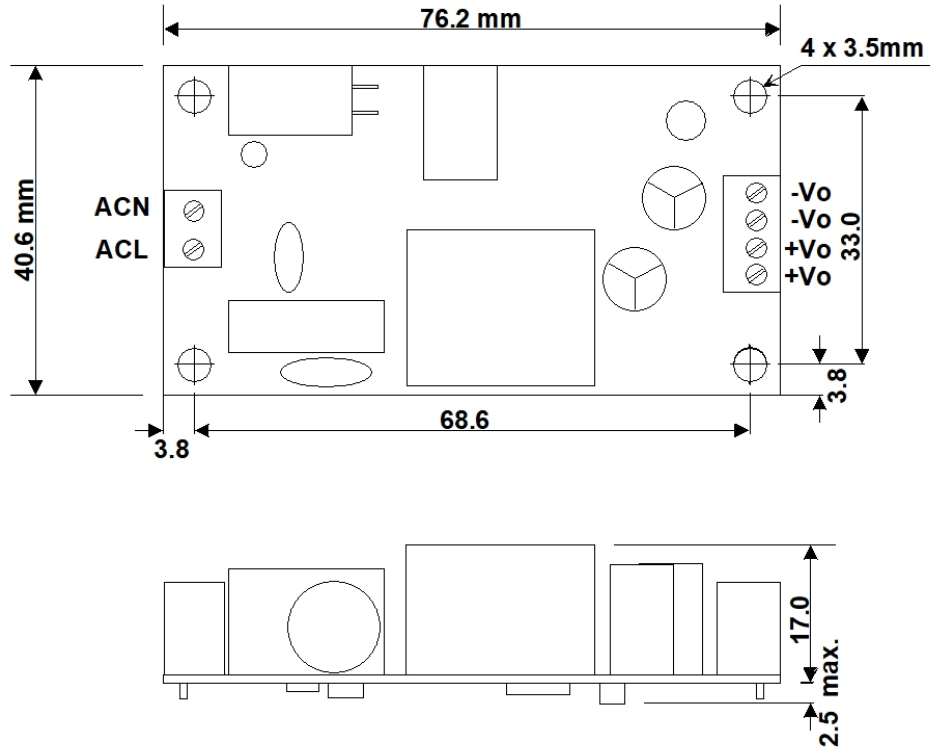


Option -T

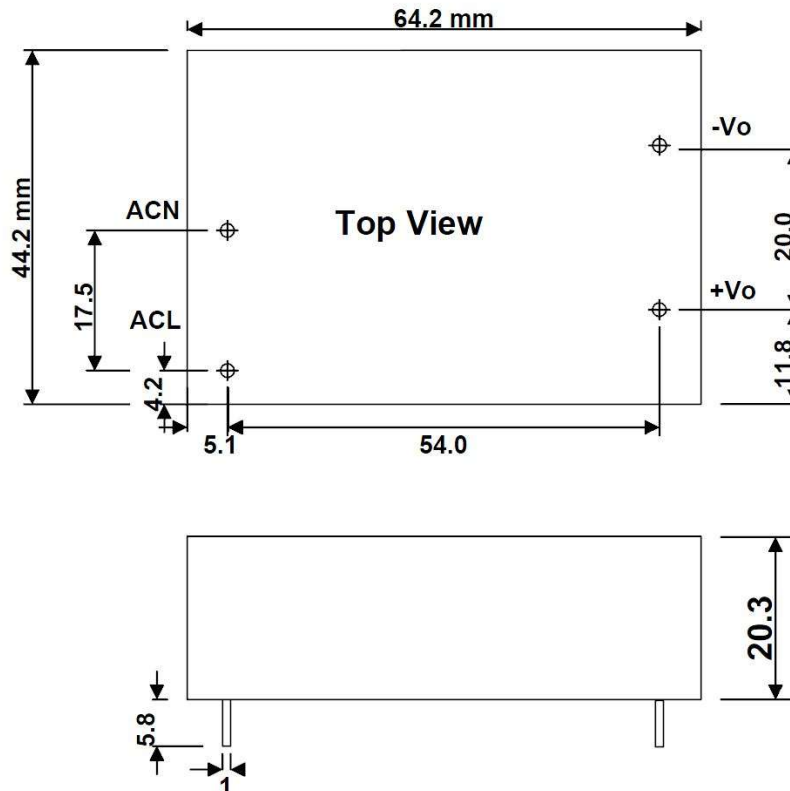


CFM-21S Series Drawings

Option -S



Option -E



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