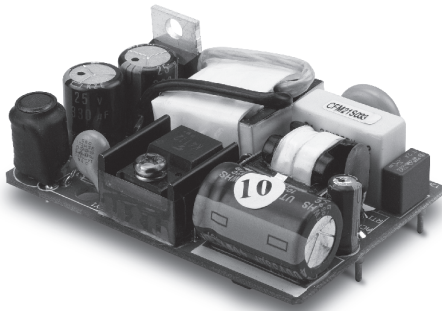


20 WATT OPEN FRAME AC-DC MODULES



Features:

- Universal Input Range 90-264VAC
- Miniature Size, Low Profile 0.8"
- Industry-Standard Pin Out
- Efficiency to 85%
- Option for On-board, Connector, Screw Terminal Or Encapsulated type
- 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 approved
- UL60950-1/IEC60950-1/EN60950-1 ITE safety approved

Safety Approvals



Electrical Characteristics:

MODEL	INPUT VOLTAGE	OUTPUT VOLTAGE	MIN. LOAD	MAX. LOAD	Output Rated Power	RIPPLE & NOISE	VOLTAGE ACCURACY	% EFF.
CFM21S033	90-264VAC	3.3V	0	4.0A	13.2W	50mV	± 1%	75%
CFM21S050	90-264VAC	5.0V	0	4.0A	20.0W	50mV	± 1%	80%
CFM21S090	90-264VAC	9.0V	0	2.3A	20.7W	90mV	± 1%	81%
CFM21S120	90-264VAC	12V	0	1.7A	20.4W	100mV	± 1%	83%
CFM21S150	90-264VAC	15V	0	1.4A	21.0W	100mV	± 1%	84%
CFM21S240	90-264VAC	24V	0	0.9A	21.6W	100mV	± 1%	85%

Specification

INPUT SPECIFICATIONS:

Voltage90 ~ 264Vac
Frequency47 to 63Hz
Input Current	0.3 to 0.5A
Inrush Current.....Cold Start@25°C.....	40A max. @230Vac
Leakage Current.....	0.1mA max.

OUTPUT SPECIFICATIONS:

Voltage Accuracy:	±1.0% max.
Line Regulation ³	±0.5% max.
Load Regulation ⁴	±1.0% max.
Holdup Time	10ms typ. @115Vac
Short Circuit Protection	Continuous
Over Voltage Protection(TVS)	115%-140% of nominal output voltage

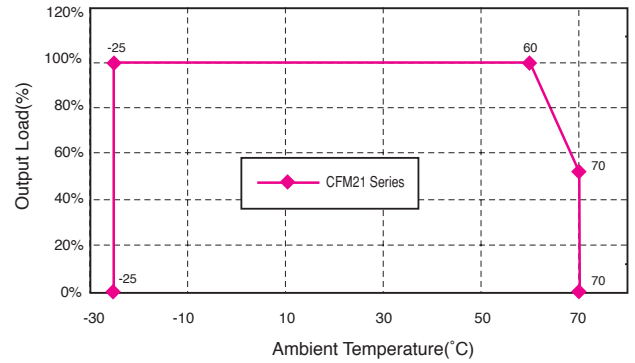
GENERAL CHARACTERISTICS:

Efficiency	see Table
Switching Frequency	100KHz typ.
Isolation	Input to output = 5656VDC
Operating Temperature	-25 ~ 70°C(with de-rating)
Storage Temperature	-40~85°C
Cooling	Natural Convection
Humidity	93% RH max. Non condensing
MTBF	MIL-STD-217F, GB 650K hrs min.
Dimensions	2.38x1.60x0.80Inches (60.5x40.6x20.4mm)
	-T: 3.00x1.60x0.77Inches (76.2x40.6x19.5mm)
Weight	50g, 55g(-T)

SAFETY AND EMC:

CE Directive	2004/108/EC, 93/42/EEC
Emissions	EN60601-1/EN61204-3/EN55022/CISPR Class B, EN55024
Safety Approvals	UL60601-1,IEC60601-1,EN60601-1 UL60950-1,IEC60950-1,EN60950-1

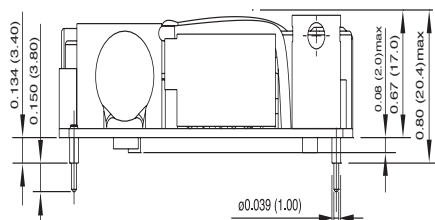
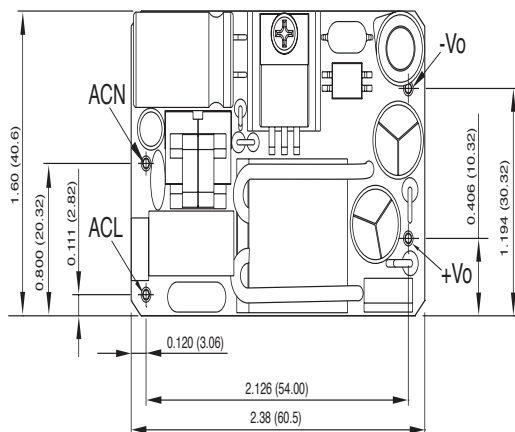
CFM21 Series Derating Curve



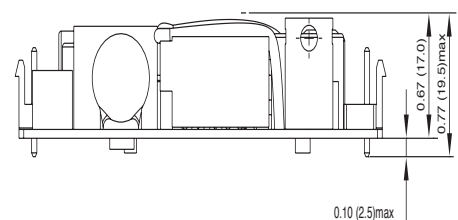
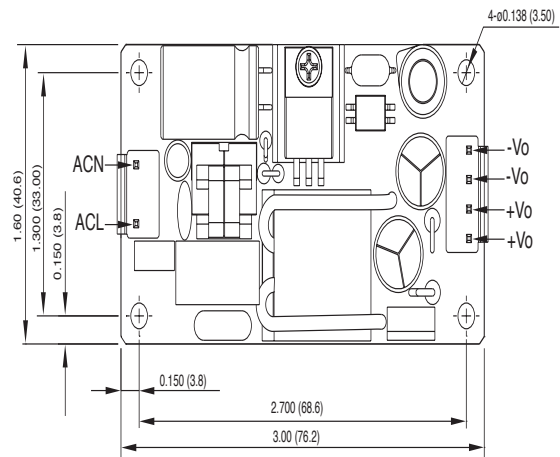
NOTES:

1. Voltage accuracy is set of 100% rated load.
2. Add a 0.1uF ceramic capacitor and a 10uF E.L. capacitor to output for Ripple & Noise measuring @20MHz BW.
3. Line regulation is measured from high line to low line 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!

CFM21S Series



CFM21S-T Series



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

Data sheets are subject to change without notice, please check with our sales office before ordering