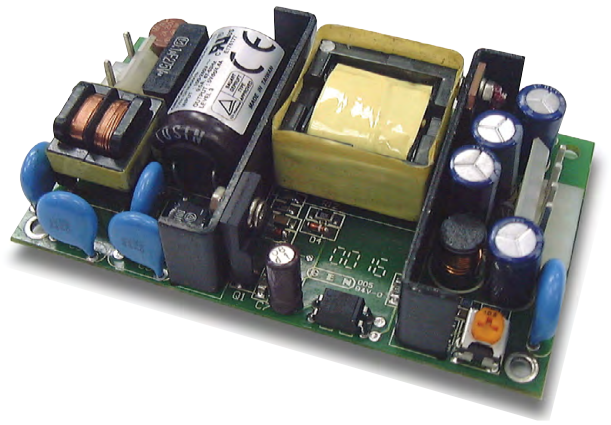
Astrodyne TDI
Now you have power.

20W Ultraminiature Open Frame Switching Power Supplies

LFM20 series



2.0"W x 3.5"L x 0.80"H

- Universal 90-264VAC Input
- High Efficiency
- Regulated Outputs
- 3000V Isolation
- Single Outputs
- UL60950 & EN60950 Approved
- Optional 0.156" Spaced Connectors, or PCB Mount Configuration

Model Number	Output Voltage	Output Amps(max)	Ripple pk-pk	Efficiency
0.156" SPACED CONNECTORS				
LFM20-3.3	3.3 VDC	4.4A	50mV	70%
LFM20-5	5 VDC	4.4A	1%	73%
LFM20-9	9 VDC	2.45A	1%	77%
LFM20-12	12 VDC	1.8A	1%	80%
LFM20-15	15VDC	1.4A	1%	80%
LFM20-24	24VDC	0.92A	1%	82%
PCB MOUNT (Pins)				
LFM20-3.3P	3.3 VDC	4.4A	50mV	70%
LFM20-5P	5 VDC	4.4A	1%	73%
LFM20-9P	9 VDC	2.45A	1%	77%
LFM20-12P	12 VDC	1.8A	1%	80%
LFM20-15P	15VDC	1.4A	1%	80%
LFM20-24P	24VDC	0.92A	1%	82%

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INPUT SPECIFICATIONS

Input Voltage Range	90-264 VAC
Frequency Range	47-63 Hz
Inrush Current, typ:	20A@100V, 40A@200V Input *
Leakage Current	3.5mA max.

OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Load Regulation (10%-FL)	+/- 1%
Line Regulation (LL-HL, FL)	+/- 0.5%
Voltage Accuracy	+/- 1%
Temperature Coefficient	+/-0.05%/°C
Ripple/Noise	See Selection Chart (NOTE 1)
Short Circuit Protection	Continuous
Hold Up Time	16 mS, typ @ 115VAC

GENERAL SPECIFICATIONS

Input-Out Isolation	3000VAC
Efficiency	See Selection Chart
Safety	UL60950, EN60950

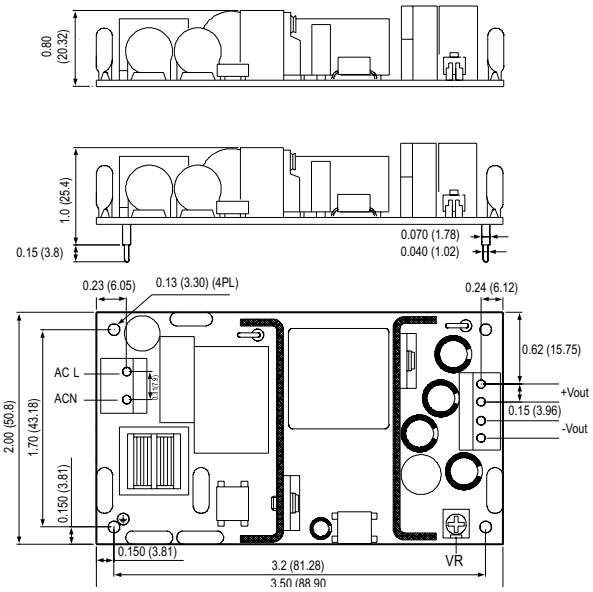
PHYSICAL SPECIFICATIONS

Size		
	0.156 Connectors	3.5" x 2.0" x 0.80" (NOTES 2 & 3)
	PCB Pins	3.5" x 2.0" x 1.0"
Construction		Open Frame
Weight		
	0.156 Connectors	3.1 oz (88g)
	PCB Pins	3.3 oz (93g)

ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	0 to +45°C
Cooling	Free Air Convection
Storage Temperature	-20 to +85°C *

MECHANICAL SPECIFICATIONS



NOTES:

1) Add a 0.1uF ceramic capacitor and a 10uF E.L.capacitor to output for Ripple & Noise (R & N) measuring @ 20MHz BW.
2) Input Connector Mates with Molex Housing 09-50-3031 and Molex 2878 Series Crimp Terminal
3) Output Connector Mates with Molex Housing 09-50-3041 and Molex 2878 Series Crimp Terminal

All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranteed nor implied.