

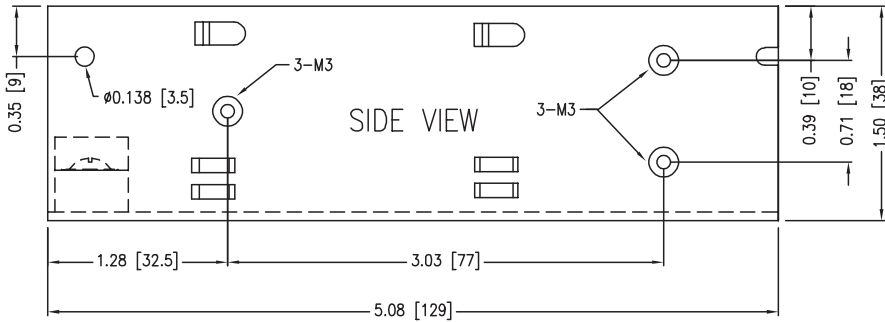


# 75 Watt AC/DC Single Output Switching Power Supply

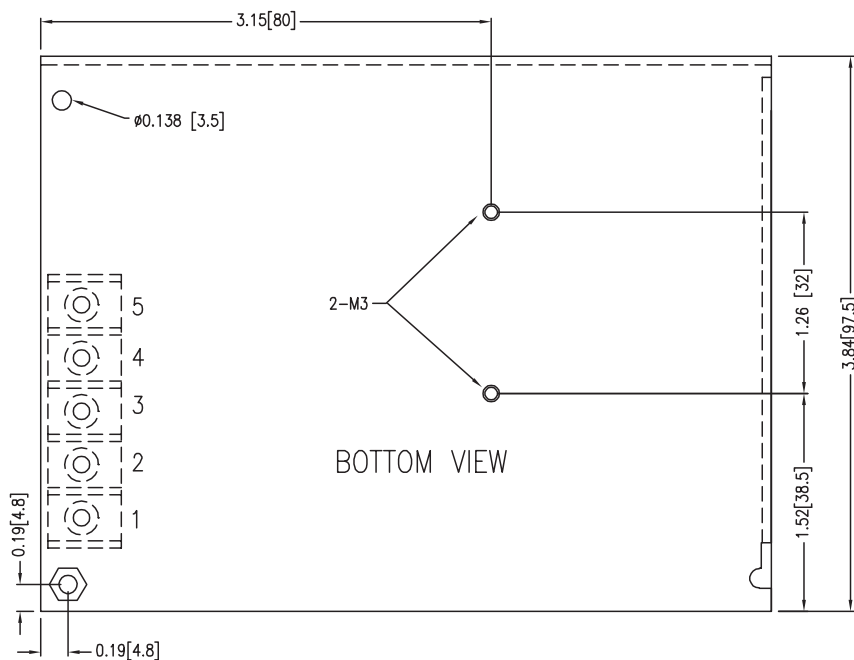
- Efficiency up to 86%
- Universal Input Range
- Single Output
- Short Circuit Protection
- Overload Protection
- Over Voltage Protection
- MTBF > 230,000 Hours
- UL60950 Approved



Model Number	Voltage Output (VDC)	Current				Voltage Adjustment Range (VDC)	Load Regulation	Efficiency (%)
		Input		Output				
		115 VAC Full Load	230 VAC Full Load	Min (A)	Max (A)			
CM75JS5	5	1.5	0.9	0	12	4.75 - 5.5	2%	76
CM75JS12	12	1.5	0.9	0	6.0	10.8 - 13.2	1%	81
CM75JS24	24	1.5	0.9	0	3.2	21.6 - 26.4	1%	85
CM75JS48	48	1.5	0.9	0	1.6	43.2 - 52.8	1%	86



Dimensions are inches (mm) unless noted



Termination	
1	AC/L
2	AC/N
3	CASE GROUND
4	-V <sub>OUT</sub>
5	+V <sub>OUT</sub>



See Model Selection Table for Model Specific Parameters

Input Parameters	Min	Typ	Max	Units
Input Voltage Range Designed for optimal performance in the nominal input range of 110 - 240VAC. See Derating Curve	88	230	264	VAC
Input Frequency	47	60	63	Hz
Inrush Current 230 VAC Full Load Cold Start			35	A
<b>Input Fuse</b>	<b>T5A/250VAC</b>			
Output Parameters	Min	Typ	Max	Units
Ripple & Noise (20MHz) 5V 12V 24V 48V			80 120 120 200	mV <sub>P-P</sub>
Set-up Time (230 VAC Full Load)		500		ms
Rise Time (230 VAC Full Load)		80		ms
Hold Time (230 VAC Full Load)		20		ms
Over Voltage Protection	115		145	% of V <sub>o</sub>
Over Load Protection	120		150	% of V <sub>o</sub>
Short Circuit Protection	Automatic Recovery			
General Specifications	Min	Typ	Max	Units
Isolation Voltage, 60 seconds	3000			VAC
Isolation Resistance 500VDC	100			Mohms
Operating Temperature (Ambient)	-20	25	+70	°C
Storage Temperature	-40	25	+85	°C
Humidity			90	%
MTBF (MIL-HDBK-217F)	230			K Hours
Cooling	Free-Air Convection			
Case Size	5.08 x 3.84 x 1.50 inches 129 x 97 x 38 mm			
Weight	500g			
Agency Approval	UL60950 Approved			

Notes:

- Specifications typical at Ta=+25°C, 230VAC, 60Hz input voltage, rated output current unless otherwise noted.
- Ripple & Noise measured with a 0.1 µF ceramic and 22 µF electrolytic in parallel with output, 20MHz bandwidth.
- Long term short circuit operation may cause damage to the unit.
- Water washability - ConTech Mounted Power Supplies are not sealed and should not be subjected to any type of wash process.
- See ConTech website for Definition of Terms, Application Notes, and Test Setups and Parameters. [www.ConTech-us.com/appnotes.html](http://www.ConTech-us.com/appnotes.html).
- Specifications subject to change without notice.
- See ConTech website [www.ConTech-us.com/pdf/rohs.pdf](http://www.ConTech-us.com/pdf/rohs.pdf) for RoHS Statement.

Derating Curves

