

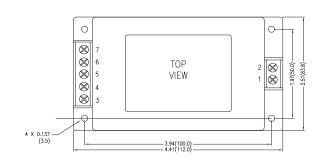
30 Watt AC/DC Chassis Module: Single Output Series

Efficiency up to 80%
Universal Input Range 85-265 VAC
Single Output Modules
3000VAC Isolation
Short Circuit Protection
Over Voltage Protection
MTBF > 250,000 Hours
UL60950 Approved
RoHS Compliant



Model Number	Voltage	Current				Efficiency	Congoitivo
	Output	Input 115VAC, 60Hz		Output		Efficiency	Capacitive Load
	(VDC)	@ No Load (mA)	@ Max Load (mA)	Max (mA)	Peak (mA)	@ Max Load (%, Typ)	Max
PM30J85S12	12	60	543	2500		88	1200 μF
PM30J85S24	24	60	543	1250		88	560 μF

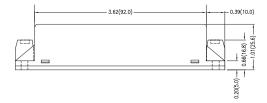
Pin Connections (NC) Not Connected		
Pin	Single	
1	AC(N) - AC Neutral	
2	AC(L) - AC Line	
3	+Vout	
4	NC	
5	-Vout	
6	NC	
7	NC	



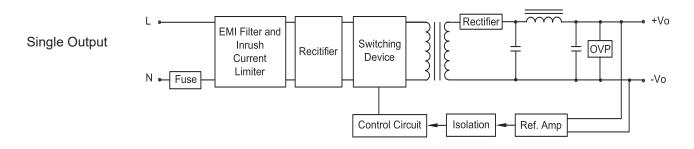
Dimensions are inches (mm) unless noted

Tolerance: Inches Millimeters $X.XX \pm 0.02$ $X.X \pm 0.5$ $X.XXX \pm 0.010$ $X.XX \pm 0.25$

 $Pin \qquad \pm 0.004 \qquad \pm 0.1$



Block Diagrams



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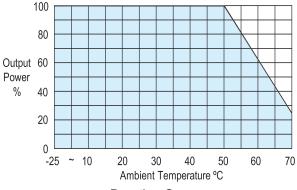


See Model Selection Table for Model Specific Parameters

Input Parameters	Min	Тур	Max	Units	
	85		265	VAC	
Input Voltage Range		90		370	VDC
Input Frequency	47		440	Hz	
Switching Frequency	65	100		kHz	
	115VAC			30	Α
(Cold Start at 25°C)	230VAC			60	Α
Output Parameters		Min	Тур	Max	Units
Output Voltage Accuracy			±1.0	±2.0	%
Load Regulation lout = Min. to	o Max.			±1.0	%
Line Regulation Vin=Min. to	o Max.			±0.5	%
Ripple & Noise (20MHz) Other Output Models			1.0	of Vo	
Over Voltage Protection			125	1.0	% of
Zener diode clamp		<u> </u>			Vo
Temperature Coefficient	<u> </u>	±0.02		% / °C	
Overshoot				5	%
Current Limitation 85VAC Hiccup Technique, auto	110			%	
Short Circuit Protection		Hiccup mode, indefinite (automatic recovery)			
General Specifications		Min	Тур	Max	Units
Isolation Voltage, 60 seconds		3000			VAC
Isolation Resistance 500VDC		100			Mohms
Hold-up Time (115VAC, 60Hz)			20		ms
Operating Temperature (Ambient)		-10		+71	°C
Storage Temperature		-40		+85	°C
Humidity				95	%
MTBF MIL-HDBK-217F @25°C, Ground Benign		250			K Hours
Cooling		Free-Air Convection			
Case Size		4.41 x 2.51 x 1.01 inches 112.0 x 63.8 x 25.6 mm			
Case Size		11	12.0 X 63.	0 X 23.0	
Case Size Case Material		<u> </u>	stic Resir		
		<u> </u>	stic Resir (ULS	+ Fiber	

Notes

- Specifications typical at Ta=+25°C, 115VAC, 60Hz input voltage, rated output current unless otherwise noted.
- ConTech power converters require a minimum output loading to maintain specified regulation. Operation under no-load conditions will not damage these modules; however, they may not meet all specifications listed.
- 3. The series has a limitation of a maximum connected capacitance at the output. The power module may be operated in current limiting mode during start-up, affecting the ramp-up and the startup time.
- 4. Ripple & Noise measurement bandwidth is 0-20MHz.
- 5. Cross Regulation Measured output lo = 20% to 100% of rated load. Other outputs are set at 50% of rated load.
- 6. Peak current can not be drawn from all outputs at the same time.
- Floating (or isolated) output of a power supply that is not connected to any other output.
- 8. Long term short circuit operation may cause damage to the unit.
- Water washability ConTech AC/DC converters are designed to withstand most solder/wash processes. Careful attention should be used when assessing the applicability in your specific manufacturing process. Converters are not hermetically sealed.
- See ConTech website for Definition of Terms, Application Notes, and Test Setups and Parameters. www.ConTech-us.com/appnotes. html
- 11. Specifications subject to change without notice.
- 12. See ConTech website www.ConTech-us.com/pdf/rohs.pdf for RoHS Statement.



Derating Curve

To avoid exceeding the maximum temperature rating of the components inside the power module, the case temperature must be kept below 90°C.

Input Fuse Selection Table		
Built In Fuse	6A - 250VAC	
External Fuse (Recommended)	1.5A Slow-Blow Type	

External fusing should be used for system protection due to a catastrophic failure. See ConTech website for Fusing Application Notes to determine the correct fuse.