



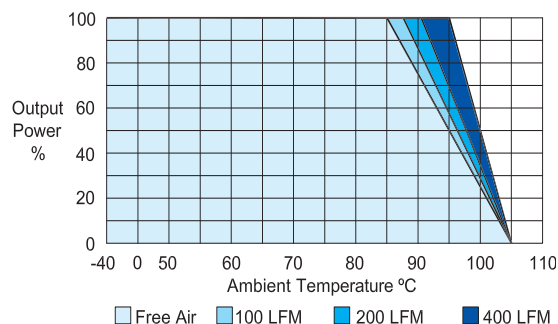
See Model Selection Table for Model Specific Parameters

Input Parameters	Min	Typ	Max	Units
Switching Frequency		220		kHz
Start Voltage	5 Vin 12 Vin 24 Vin 48 Vin		4.5 9 18 36	VDC
Input Filter	Internal Capacitor			
Output Parameters	Min	Typ	Max	Units
Output Voltage Accuracy			±1.0	%
Load Regulation Io = 10% to 100%	Single Dual		0.5 0.8	%
Line Regulation Vin=Min. to Max.			±0.2	%
Ripple & Noise (20MHz)		50		mV P-P
Transient Recovery Time 25% Load Step Change		250		µsec
Temperature Coefficient			±0.02	% / °C
Short Circuit Protection	Continuous			
General Specifications	Min	Typ	Max	Units
Isolation Voltage, 60 seconds	1500			VDC
Isolation Resistance 500VDC	1000			Mohms
Isolation Capacitance, 100kHz, 1V			50	pF
Operating Temperature (Ambient)	-40		+85	°C
Storage Temperature	-55		+125	°C
Humidity			95	%
MTBF MIL-HDBK-217F @25°C, Ground Benign	2800			K Hours
Cooling	Free-Air Convection			
Case Size	0.67 x 0.30 x 0.43 inches 17.0 x 7.62 x 11.0 mm			
Case Material	Non Conductive Black Plastic (UL94V-0)			
Weight	12.9g			
Agency Approval	CSA 60950-1 (Pending)			

Notes:

- Specifications typical at Ta=+25°C, resistive load, nominal input voltage, full 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.
- 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.
- When measuring peak-to-peak output noise, use a Cout 0.47µF ceramic capacitor. Scope measurement should be made by using a BNC socket, measurement bandwidth is 0-20MHz. Position the load between 2" and 2.5" from the converter.
- Water washability - ConTech DC/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](http://www.ConTech-us.com/appnotes.html).
- Specifications subject to change without notice.
- See ConTech website [www.ConTech.com/pdf/rohs.pdf](http://www.ConTech.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 85°C.

Input Fuse Selection Table	
5V Input	500 mA Slow-Blow
12V Input	200 mA Slow-Blow
24V Input	120 mA Slow-Blow
48V Input	60 mA Slow-Blow

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.