

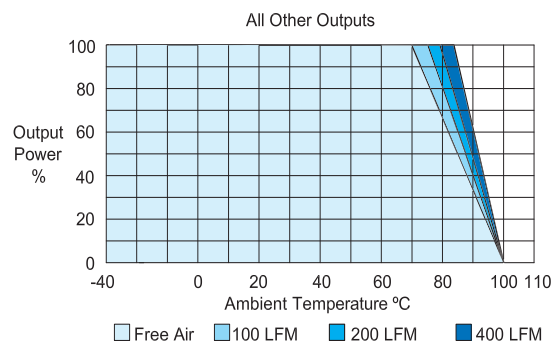
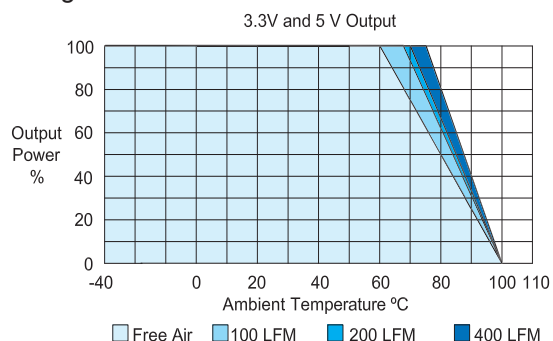
See Model Selection Table for Model Specific Parameters

Input Parameters	Min	Typ	Max	Units	
Short Circuit Input Power			3000	mW	
Start Voltage	24 Vin 48 Vin	7 14	8 16	9 18	VDC
Under Voltage Shutdown	24 Vin 48 Vin		8.5 16	VDC	
Switching Frequency		330		kHz	
Input Filter Conducted EMI	Meets EN55022, Class A and FCC Part 15, Class A				
Output Parameters	Min	Typ	Max	Units	
Output Voltage Accuracy 50% Load Nom. V_{IN}		±1.0	±2.0	%	
Output Voltage Balance Dual Output, Balanced Loads		±1.0	±2.0	%	
Load Regulation $I_o = 10\%$ to 100%		±0.6	±1.2	%	
Line Regulation $V_{in} = \text{Min. to Max.}$		±0.1	±0.5	%	
Ripple & Noise (20MHz)		50	80	mV P-P	
Over Power Protection	110	150		%	
Transient Recovery Time 25% Load Step Change		300	600	µs	
Transient Response Deviation, 25% Load Step Change		±3		%	
Temperature Coefficient		±0.01	±0.02	% / °C	
Short Circuit Protection	Continuous				
General Specifications	Min	Typ	Max	Units	
Isolation Voltage, 60 seconds	3000			VDC	
Isolation Resistance 500VDC	1000			Mohms	
Isolation Capacitance, 100kHz, 1V		1000		pF	
Operating Temperature (Ambient)	-40		+85	°C	
Case Temperature			+100	°C	
Storage Temperature	-50		+125	°C	
Humidity			95	%	
MTBF MIL-HDBK-217F @25°C, Ground Benign	800			K Hours	
Cooling	Free-Air Convection				
Case Size	1.25 x 0.80 x 0.40 inches 31.8 x 20.3 x 10.2 mm				
Case Material	Non Conductive Black Plastic (UL94V-0)				
Weight	12.7g				
Agency Approvals	CSA 60950-1				

Notes:

- Specifications typical at $T_a = +25^\circ\text{C}$, resistive load, nominal input voltage, full rated output current unless otherwise noted.
- Transient recovery time is measured to within 1% error band for a step change in output load 50% to 100%.
- 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.
- Specifications subject to change without notice.
- 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 100°C.

Input Fuse Selection Table	
24V Input	1500 mA Slow-Blow
48V Input	800 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.