

See Model Selection Table for Model Specific Parameters

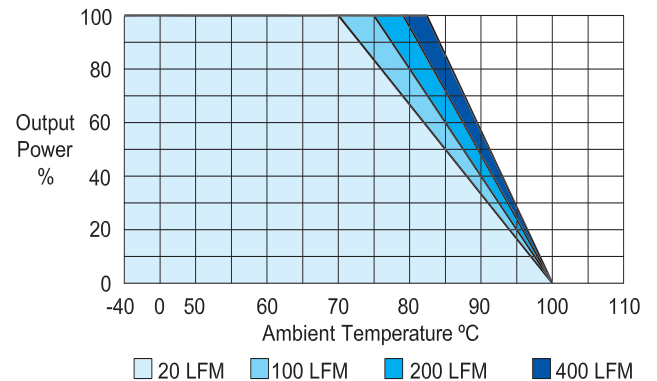
Input Parameters	Min	Typ	Max	Units	
Short Circuit Input Power			3000	mW	
Start Voltage	24 Vin 48 Vin	7 14	8 16	9 18	VDC
Under Voltage Shutdown	24 Vin 48 Vin			8.5 17	VDC
Switching Frequency		330		kHz	
Conducted EMI	Meets EN55022, Class A				
Output Parameters	Min	Typ	Max	Units	
Output Voltage Accuracy		±1	±2	%	
Output Voltage Balance Dual Output, Balanced Loads		±1.0	±2.0	%	
Load Regulation I _o = 10% to 100%		±0.5	±1.2	%	
Line Regulation V _{in} =Min. to Max.		±0.5	±1.0	%	
Minimum Load	None Required				
Ripple & Noise (20MHz)			100	mV P-P	
Over Current Protection			150	% of I _o max	
Transient Recovery Time 25% Load Step Change		300	600	µs	
Transient Response Deviation, 25% Load Step Change		±3	±5	%	
Temperature Coefficient		±0.01	±0.02	% / °C	
Short Circuit Protection	Hiccup Automatic Recovery				
General Specifications	Min	Typ	Max	Units	
Isolation Voltage, 60 seconds	1500			VDC	
Isolation Resistance 500VDC	1000			Mohms	
Isolation Capacitance, 100kHz, 1V		1000	1500	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	1000			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	Metal with Non-Conductive Baseplate UL94V-0				
Weight	17.3g				
Agency Approval	CSA 60950-1				

Remote On/Off	Min	Typ	Max	Units
Supply On	3.5V - 12V or Open Circuit			
Supply Off	0-1.2V or Short Circuit (Pin 1 and Pin 2)			
Device Standby Input Current			10	mA
Control Input Current (on) V _{ctrl} =5V			500	µA
Control Input Current (off) V _{ctrl} =0V			-500	µA
Control Common	Referenced to Negative Input			

Notes:

- Specifications typical at T_a=+25°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 75% to 100%.
- 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 C_{out} 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/appnotes.com.
- 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.