

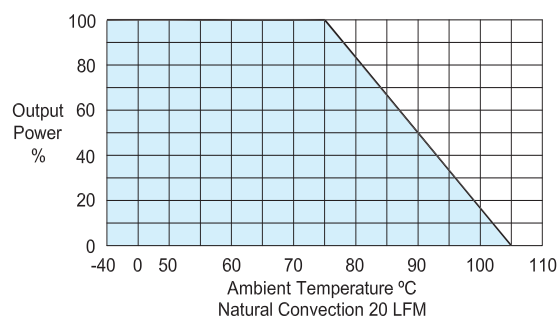
See Model Selection Table for Model Specific Parameters

Input Parameters	Min	Typ	Max	Units
Reverse Polarity Input Current			0.5	A
Short Circuit Input Power			1500	mW
Start Voltage				VDC
12 Vin	3	4	4.5	
24 Vin	4.5	6	8.5	
48 Vin	8.5	12	17	
Under Voltage Shutdown				VDC
12 Vin			4	
24 Vin			8	
48 Vin			16	
Switching Frequency		300		kHz
Input Filter	Capacitor Type			
Output Parameters	Min	Typ	Max	Units
Output Voltage Accuracy			±2	%Vnom
Output Voltage Balance Dual Output, Balanced Loads		±1.0	±2.0	%
Load Regulation Io = 0% to 100%		±0.5	±1.0	%
Line Regulation Vin=Min. to Max.		±0.3	±0.5	%
Ripple & Noise (20MHz)		50	100	mV P-P
Transient Recovery Time 25% Load Step Change		300	500	µS
Transient Response 25% Load Step Change		±3	±5	%
Temperature Coefficient		±0.01	±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		250	500	pF
Operating Temperature (Ambient)	-40		+90	°C
Storage Temperature	-55		+125	°C
Humidity			95	%
MTBF MIL-HDBK-217F @25°C, Ground Benign	1000			K Hours
Cooling	Free-Air Convection			
Case Size	0.86 x 0.37 x 0.44 inches 21.8x 9.3 x 11.2 mm			
Case Material	Non Conductive Black Plastic (UL94V-0)			
Weight	4.66g			

Remote On/Off	Min	Typ	Max	Units
Supply On	Under 0.6 VDC or Open Circuit, drops down to 0 VDC by 2mV/°C			
Supply Off	2.7		15	VDC
Device Standby Input Current		0.1	0.2	mA
Control Input Current (on) Vin=0V			-0.4	mA
Control Input Current (off) Vin=5.0V			1	mA
Control Common	Referenced to Negative Logic			

Notes:

- Specifications typical at Ta=+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%.
- 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 90°C.

Input Fuse Selection Table	
12V Input	750 mA Slow-Blow
24V Input	350 mA Slow-Blow
48V Input	135 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.