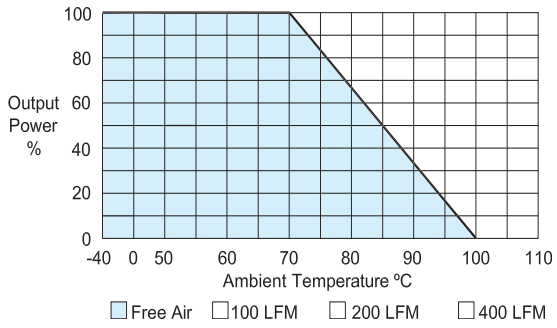
See Model Selection Table for Model Specific Parameters

Input Parameters	Min	Typ	Max	Units
Reverse Polarity Input Current			1	A
Short Circuit Input Power			2500	mW
Start Voltage 12 Vin 24 Vin 48 Vin	3 4.5 8.5	4 6 12	4.5 9 18	VDC
Under Voltage Shutdown 12 Vin 24 Vin 48 Vin		3.5	 4 8 16	VDC
Switching Frequency		350		kHz
Input Filter	Capacitor Type			
Output Parameters	**Min**	**Typ**	**Max**	**Units**
Output Voltage Accuracy 50% Load Nom. V_{IN}		±0.5	±1.0	%
Output Voltage Balance Dual Output, Balanced Loads		±0.5	±2.0	
Load Regulation Io = 25% to 100%		±0.5	±1.0	%
Line Regulation Vin=Min. to Max.		±0.3	±0.5	%
Ripple & Noise (20MHz)		50	75	mV P-P
Transient Recovery Time 25% Load Step Change		300	500	µS
Transient Response 25% Load Step Change		±3	±5	%
Temperature Coefficient			±0.02	% / ºC
Short Circuit Protection	Continuous			
General Specifications	**Min**	**Typ**	**Max**	**Units**
Isolation Voltage, 60 seconds	1600			VDC
Isolation Resistance 500VDC	1000			Mohms
Isolation Capacitance, 100kHz, 1V		200		pF
Operating Temperature (Ambient)	-40		+85	ºC
Case Temperature			+105	
Storage Temperature	-55		+125	ºC
Humidity			95	%
MTBF MIL-HDBK-217F @25ºC, Ground Benign	800			K Hours
Lead Temperature (1.5mm from case for 10 Sec.)			260	ºC
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	4.8g			
Agency Approval	UL60950 Pending			

Remote On/Off	Min	Typ	Max	Units
Supply On	Under 0.6 VDC or Open Circuit, drops down to 0 VDC by 2mV/ºC			
Supply Off	2.7		15	VDC
Device Standby Input Current		1	2.5	mA
Control Input Current (on) Vin=0V			1	mA
Control Input Current (off) Vin=5.0V			1	mA
Control Common	Referenced to Negative Logic			

Notes:

1. Specifications typical at Ta=+25ºC, resistive load, nominal input voltage, full rated output current unless otherwise noted.
2. Transient recovery time is measured to within 1% error band for a step change in output load 75% to 100%.
3. 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.
4. 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.
5. 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.
6. 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.
7. See ConTech website for Definition of Terms, Application Notes, and Test Setups and Parameters. www.ConTech-us.com/appnotes.html.
8. Specifications subject to change without notice.
9. 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 105ºC.

Input Fuse Selection Table	
12V Input	1500 mA Slow-Blow
24V Input	700 mA Slow-Blow
48V Input	350 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.

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