

See Model Selection Table for Model Specific Parameters

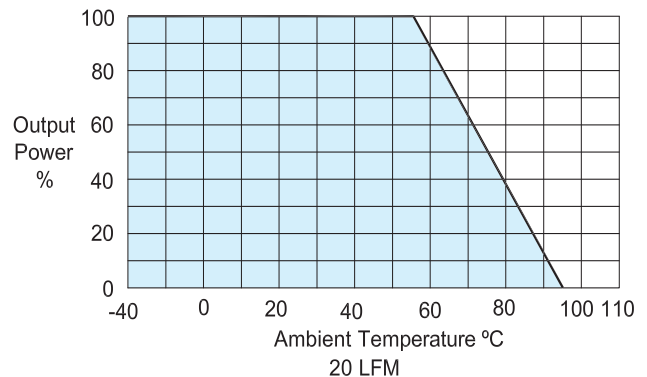
Input Parameters	Min	Typ	Max	Units
Start Voltage 12 Vin 24 Vin 48 Vin	7 13 30	8 15 33	9 18 36	VDC
Under Voltage Shutdown 12 Vin 24 Vin 48 Vin			8.5 16 34	VDC
Switching Frequency	120	150	180	kHz
Input Filter				
Conducted EMI	Meets EN 55022 Class A and FCC part 15, Class A			
Output Parameters	Min	Typ	Max	Units
Output Voltage Accuracy at 50% Load and Nom Vin			±1.0	%
Output Voltage Balance Dual Output, Balanced Loads		±0.5	±2.0	%
Load Regulation Io=15% to 100% Io=5% to 100%		±0.5 ±0.6	±1.0 ±1.2	%
Line Regulation Vin=Min. to Max.		±0.3	±0.5	%
Ripple & Noise (20MHz) 5 V Models All other Models		75 100	100 150	mV P-P
Over Power Protection	120	150		%
Transient Recovery Time 25% Load Step Change		300	600	µs
Transient Response Deviation		±3	±5	
Temperature Coefficient		±0.2	±0.05	% / °C
Short Circuit Protection	Continuous			
General Specifications	Min	Typ	Max	Units
Isolation Voltage, 60 seconds	4200			VACrms
Isolation Resistance 500VDC	10			Gohms
Isolation Capacitance, 100kHz, 1V		60	80	pF
Operating Temperature (Ambient)	-40		+75	°C
Operating Temperature (Case)			+95	°C
Storage Temperature	-50		+125	°C
Humidity			95	%
MTBF MIL-HDBK-217F @25°C, Ground Benign	1			M Hours
Cooling	Free-Air Convection			
Case Size	2.0 x 1.0 x 0.47 inches 50.8 x 25.4 x 12.0 mm			
Case Material	Non-Conductive Black Plastic (UL94V-0)			
Weight	24.5g			
Agency Approvals (PENDING)	UL60950-1, UL60601-1			

Input Fuse Selection Table	
12V Input	3000 mA Slow-Blow
24V Input	1500 mA Slow-Blow
48V Input	750 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.

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.
- Ripple & Noise measurement bandwidth is 20MHz, measured with a 1 µF M/C and a 10 µF T/C.
- 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.



To avoid exceeding the maximum temperature rating of the components inside the power module, the case temperature must be kept below 95°C.