



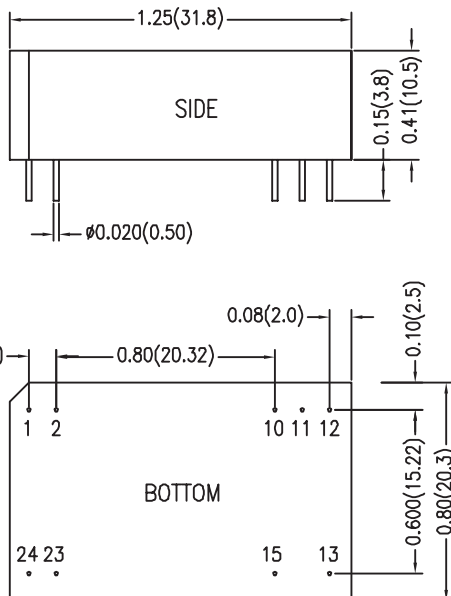
- 3000VAC Isolation
- MTBF > 1,000,000 Hours
- Regulated Outputs
- Low Leakage Current
- Short Circuit Protection
- RoHS Compliant



3 Watt DPV Single and Dual Series



Model Number	Voltage			Current			Input Overvoltage (1000ms)	Efficiency	Capacitive Load
	Input		Output	Input		Output			
	Nom. (VDC)	Range (VDC)	(VDC)	@ No Load (mA)	@ Max Load (mA)	Max (mA)			
DPV3L5S5	5	4.5-5.5	5	130	1000	600	7.5	60	470 μ F
DPV3L5S12	5	4.5-5.5	12	130	960	250	7.5	62	470 μ F
DPV3L5S15	5	4.5-5.5	15	130	960	200	7.5	62	470 μ F
DPV3L5D12	5	4.5-5.5	± 12	130	1000	± 125	7.5	60	220 μ F
DPV3L5D15	5	4.5-5.5	± 15	130	1000	± 100	7.5	60	220 μ F
DPV3L12S5	12	10.8-13.2	5	60	420	600	15	60	470 μ F
DPV3L12S12	12	10.8-13.2	12	60	400	250	15	62	470 μ F
DPV3L12S15	12	10.8-13.2	15	60	400	200	15	62	470 μ F
DPV3L12D12	12	10.8-13.2	± 12	60	420	± 125	15	60	220 μ F
DPV3L12D15	12	10.8-13.2	± 15	60	420	± 100	15	60	220 μ F
DPV3L24S5	24	21.6-26.4	5	40	210	600	30	60	470 μ F
DPV3L24S12	24	21.6-26.4	12	40	195	250	30	64	470 μ F
DPV3L24S15	24	21.6-26.4	15	40	195	200	30	64	470 μ F
DPV3L24D12	24	21.6-26.4	± 12	40	210	± 125	30	60	220 μ F
DPV3L24D15	24	21.6-26.4	± 15	40	210	± 100	30	60	220 μ F



Pin Connections (NC) Not Connected		
Pin	Single	Dual
1	+Vin	+Vin
2	+Vin	+Vin
10	No Pin	Common
11	No Pin	Common
12	-Vout	No Pin
13	+Vout	-Vout
15	No Pin	+Vout
23	-Vin	-Vin
24	-Vin	-Vin

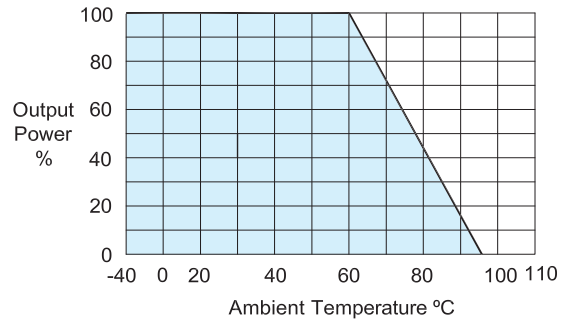
See Model Selection Table for Model Specific Parameters

Input Parameters	Min	Typ	Max	Units
Reverse Polarity Input Current			0.5	A
Short Circuit Input Power			2500	mW
Switching Frequency	25		80	kHz
Input Filter	Pi Filter			
Conducted EMI	Meets EN55022, Class A and FCC Part 15, Class A			
Output Parameters	Min	Typ	Max	Units
Output Voltage Accuracy			±4.0	%
Output Voltage Balance Dual Output, Balanced Loads		±2.0	±4.0	%
Load Regulation I _o = 10% to 100%		±0.5	±1.0	%
Line Regulation V _{in} =Min. to Max.		±0.3	±0.5	%
Ripple & Noise (20MHz)		30	50	mV P-P
Temperature Coefficient		±0.01	±0.02	% / °C
Short Circuit Protection	Continuous			
General Specifications	Min	Typ	Max	Units
Isolation Voltage, 60 seconds	3000			VAC
Isolation Resistance 500VDC	10			Gohms
Isolation Capacitance, 100kHz, 1V		20		pF
Leakage Current 240VAC, 60 Hz			2	µA
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	600			K Hours
Cooling	Free-Air Convection			
Case Size	1.25 x 0.80 x 0.41 inches 31.8 x 20.3 x 10.5 mm			
Case Material	Non Conductive Black Plastic (UL94V-0)			
Weight	12.4g			

Notes:

1. Specifications typical at Ta=+25°C, resistive load, nominal input voltage, full rated output current unless otherwise noted.
2. 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.
3. 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.
4. When measuring peak-to-peak output noise, use a Cout 0.33µF 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.
5. 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.
6. See ConTech website for Definition of Terms, Application Notes, and Test Setups and Parameters. www.ConTech-us.com/appnotes.html
7. Specifications subject to change without notice.
8. 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	
5V Models	2000 mA Slow-Blow
12V Models	1000 mA Slow-Blow
24V Models	500 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.

