

50W to 150W Single Output, 115VAC Input

Features

- ◆ Input transient protected
- ◆ 2 year warranty
- ◆ High quality design
- ◆ Broad product range



Key Market Segments & Applications



Specifications

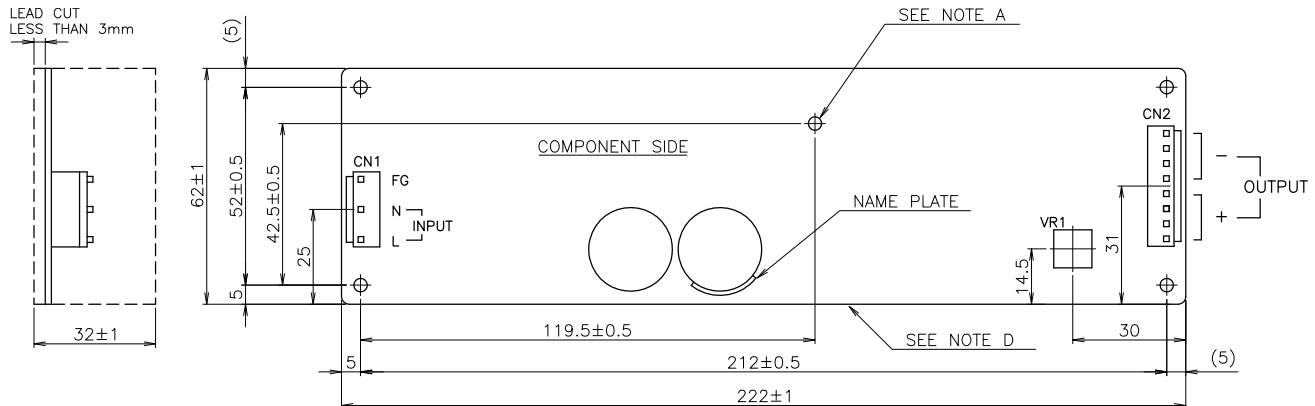
Model		VS50B	VS75B	VS100B	VS150B
AC Input Voltage range	-	85-132VAC (47-440Hz)			
DC Input Voltage range	VDC	110 - 175VDC			
Inrush Current (100VAC) (1)	A	30	30	20	20
Temperature Coefficient	-	<0.02%/°C			
Overcurrent Protection (2)	-	VSB:~125%			
Overvoltage Protection	V	~115 - 135% Manual Reset			
Hold Up Time (Typ) at 100VAC	ms	17			
Remote Sense	-	None			
Operating Temperature (3)	--	10°C to +60°C, derate linearly to 70% load from 50°C to 60°C			
Storage Temperature	-	-30 to +85°C			
Humidity (non condensing)	-	Storage 10-95% RH, Operating 30-90% RH			
Cooling (4)	-	Convection			Forced
Withstand Voltage	-	Input to Ground 2kVAC (20mA), Input to Output 2kVAC (20mA), Output to Ground 500VAC (100mA) for 1 min.			
Isolation Resistance	-	>100M at 25°C & 70%RH, Output to Ground 500VDC			
Vibration (non operating)	-	10 - 55Hz (1 minute sweep), 19.6m/s ² constant X, Y, Z 1 hour			
Shock	-	< 196.1 m/s ²			
Safety Agency Approvals	-	UL60950-1, CSA60950-1, EN60950-1			
Conducted & Radiated EMI	-	FCC Class B, VCCI-B			
Recommended EMI Filter	-	RSEL-2002W	RSEL-2003W	RSEL-2006W	
Weight (Typ) (VSP)	g	200	350	420	550
Size (WxHxD)	mm	See Outline Drawings			
Warranty	yrs	Two Years			

Notes:

- (1) 25°C ambient (cold start)
- (2) Avoid prolonged operation in overload
- (3) VS50B24 -10°C to +60°C, derate linearly to 62% load from 40°C to 60°C
- (4) 0.7m/s forced air required, consult installation manual for derating with convection cooling

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VSB100 Outline Drawing



Model Selector

Model	Voltage V	Adjust Range V	Max Curr. A	Peak Curr. A	Load Reg mV	Line Reg mV	Ripple Noise mV	Eff. %
VS50B-3	3.3	2.97-3.63	10	12	40	20	120	73
VS75B-3	3.3	2.97-3.63	15	18	40	20	120	72
VS100B-3	3.3	2.97-3.63	20	24	40	20	120	72
VS150B-3	3.3	2.97-3.63	30	36	40	20	120	72
VS50B-5	5	4.5-5.5	10	12	40	20	120	78
VS75B-5	5	4.5-5.5	15	18	40	20	120	79
VS100B-5	5	4.5-5.5	20	24	40	20	120	79
VS150B-5	5	4.5-5.5	30	36	40	20	120	78
VS50B-12	12	10.8-13.2	4.3	5.16	96	48	150	79
VS75B-12	12	10.8-13.2	6.3	7.56	96	48	150	80
VS100B-12	12	10.8-13.2	8.5	10.2	96	48	150	80
VS150B-12	12	10.8-13.2	12.5	15	96	48	150	80
VS50B-15	15	13.5-16.5	3.5	4.2	120	60	150	80
VS75B-15	15	13.5-16.5	5	6.0	120	60	150	80
VS100B-15	15	13.5-16.5	7	8.4	120	60	150	80
VS150B-15	15	13.5-16.5	10	12	120	60	150	80
VS50B-24	24	21.6-26.4	2.5	3.0	150	96	200	80
VS75B-24	24	21.6-26.4	3.2	3.84	150	96	200	81
VS100B-24	24	21.6-26.4	4.3	5.16	150	96	200	81
VS150B-24	24	21.6-26.4	6.3	7.56	150	96	200	80
VS75B-36	36	32.4-39.6	2.1	2.52	240	144	300	81
VS100B-36	36	32.4-39.6	3	3.6	240	144	300	81
VS150B-36	36	32.4-39.6	4.2	5.04	240	144	300	80
VS75B-48	48	43.2-52.8	1.6	1.92	300	192	400	81
VS100B-48	48	43.2-52.8	2.2	2.64	200	192	400	81
VS150B-48	48	43.2-52.8	3.2	3.84	300	192	400	81

Peak Current Note: For 10s maximum, 35% duty cycle, average power not to exceed maximum ratings. See installation manual.

Other Industrial Products

HWS	15W to 1500W Single output
ZWS, ZWD, ZWQ	5W to 240W Universal input
SC, SCS120	30W to 120W Single, dual & triple output
ZP	40W to 60W Single & multiple output

For Additional Information, please visit
us.tdk-lambda.com/lp/products/vsb-series.htm



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