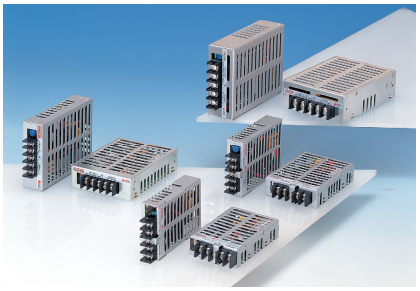
SVB-SC 50W



FEATURES

- Very small (one of the smallest in Japan)
- No derating when mounted on a horizontal surface
- Low impedance capacitors
- Over voltage protection
- EMI: Complies with FCC/A
- **Isolated Power Supply**

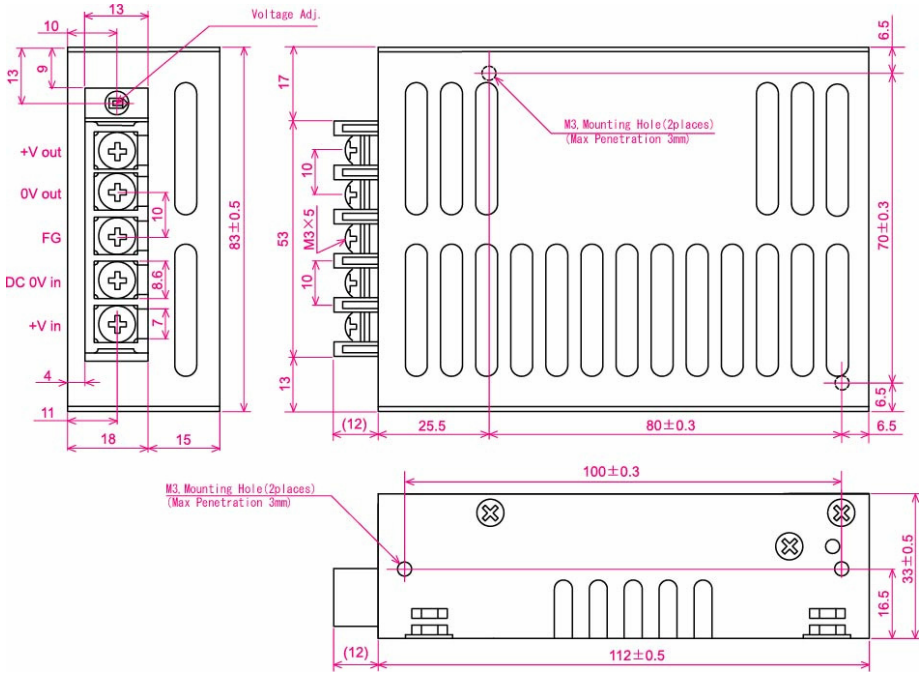
RoHS

	MODEL/CHANNEL	Unit	SVB05-SC12	SVB12-SC12	SVB15-SC12	SVB24-SC12	SVB48-SC12
OUTPUT (Single)	Output Voltage **12V**	Vdc	5	12	15	24	48
	Output Current	A	8	3.3	2.7	1.7	0.8
	Line Regulation	mV	40	96	120	192	384
	Load Regulation	mVp	45	108	135	216	432
	Ripple and Noise	mVp	150	220	250	340	580
	Drift	mV	40	75	90	135	255
	Dynamic Load Regulation	mV	150	360	450	720	1440
	Voltage Adjustment Range	-	+/-10% of Rated Output Voltage (at no load within input range)				
	Rise Time	-	0.3mS(typical)				
	Recovery Time	-	50mS(maximum) at 25°C and rated input/output				
Function	Over Current Protection	A	Current Limiting with automatic recovery				
	105% of Rated Output Current	-	8.8	3.63	2.97	1.87	0.88
	Over Voltage Protection	-	Output shutdown (to reset, leave 1minute after shutdown)				
	115% of Rated Output voltage	-	5.5	13.2	16.5	26.4	52.8
	Reverse Voltage Protection	-	by internal fuse				

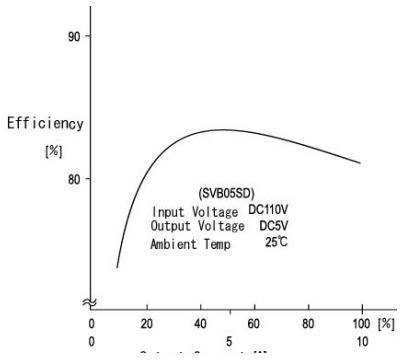
	MODEL/CHANNEL	Unit	SVB05-SC24/48	SVB12-SC24/48	SVB15-SC24/48	SVB24-SC24/48	SVB48-SC24/48
OUTPUT (Single)	Output Voltage **(24V &48V)**	Vdc	5	12	15	24	48
	Output Current	A	10	4.3	3.4	2.5	1.1
	Line Regulation	mV	40	96	120	192	384
	Load Regulation	mVp	45	108	135	216	432
	Ripple and Noise	mVp	150	220	250	340	580
	Voltage Adjustment Range	-	+/-10% of Rated Output Voltage(at no load within input range)				
	Rise Time	-	0.3mS(typical)				
	Recovery Time	-	50mS(maximum) at 25°C and rated input/output				
Function	Over Current Protection	-	Current Limiting with automatic recovery				
	105% of Rated Output Current	A	11	4.73	3.74	2.75	1.21
	Over Voltage Protection	-	Output shutdown(to reset, leave 1 minute after shutdown)				
	115% of Rated Output Voltage	V	5.5	13.2	16.5	26.4	52.8
	Reverse Voltage Protection	-	by internal fuse				

	MODEL/CHANNEL	Unit	SVB05-SC12	SVB12-SC12	SVB15-SC12	SVB24-SC12	SVB48-SC12
INPUT	Input Voltage **12V**	Vdc	DC12V				
	Input Voltage Range	Vdc	DC9.2~16V				
	Efficiency	%	79	80	82	85	85
	MODEL/CHANNEL	**Unit**	**SVB05-SC24**	**SVB12-SC24**	**SVB15-SC24**	**SVB24-SC24**	**SVB48-SC24**
	Input Voltage **24V**	Vdc	DC24V				
	Input Voltage Range	Vdc	DC19~32V				
	Efficiency	%	81	83	85	87	88
	MODEL/CHANNEL	**Unit**	**SVB05-SC48**	**SVB12-SC48**	**SVB15-SC48**	**SVB24-SC48**	**SVB48-SC48**
	Input Voltage **48V**	Vdc	DC48V				
	Input Voltage Range	Vdc	DC38~63V				
	Efficiency	%	82	84	86	88	89
	MODEL/CHANNEL	**Unit**					
Environment	Operating Temperature	°C	0 to +50°C				
	Operating Humidity	%	85%RH(non-condensing)				
	Storage Temperature	°C	-20 to +85°C				
	Storage Humidity	%	85%RH(non-condensing)				
	Withstand Voltage Primary-Secondary	-	Primary-Secondary AC2,000V for 1minute Primary-Frame Ground AC2,000V for 1minute Secondary-Frame Ground AC500V for 1minute				
	Isolation Resistance	-	Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation tester				
	Vibration	-	5-10Hz: 10mm double amplitude,10-55Hz: 19.6m/s^2, 20 minutes period for 60minutes each along X,Y,Z axes(non-operating)				
	Shock	-	294m/s^2				
	Cooling	-	Convection				
	Ref. MTBF	H	750,000				
Dimension	Size(WxHxD) / Weight	mm/g	83Wx112Lx33H/410g				

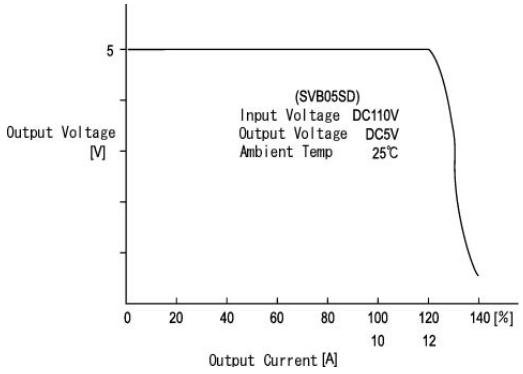
Dimension Diagram (mm) 50W



Efficiency Curve



OCP Curve



Block Diagram