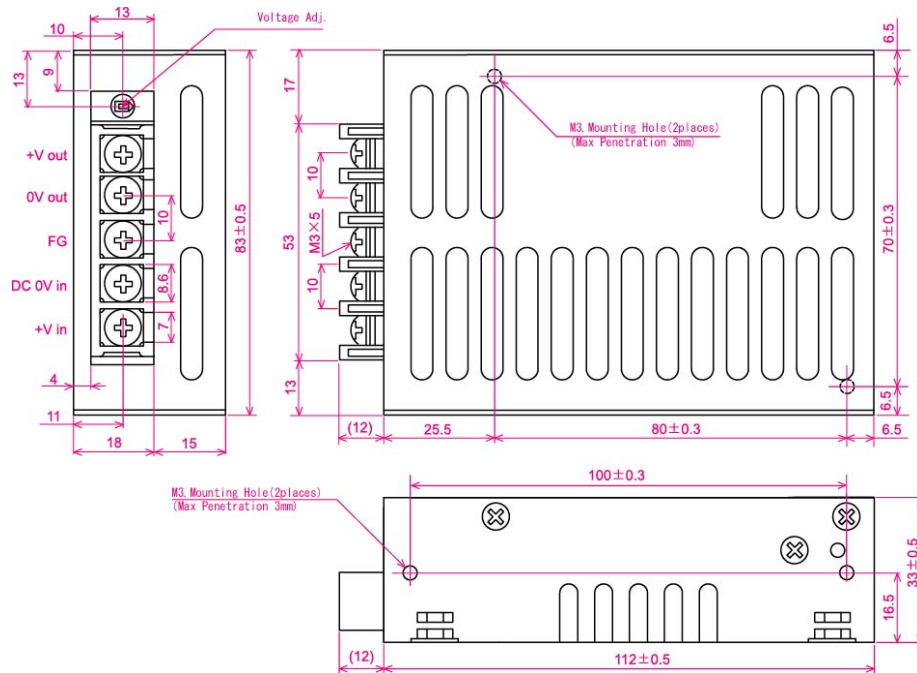


# 50 WATT DC-DC CONVERTER SVB-SC24 SERIES

SVB**SC24 50WATTS/1 OUTPUT	SVB05SC24	SVB12SC24	SVB15SC24	SVB24SC24	SVB48SC24
<b>Input Characteristic</b>					
Input Voltage	DC24V				
Input Range	DC19-32V				
Inrush Current	Not specified				
Efficiency [%] (typical) *1	81	83	85	87	88

## Dimension (mm)



## SVB\*\*SC24 Specification

SVB**SC24 50WATTS/1 OUTPUT	SVB05SC24	SVB12SC24	SVB15SC24	SVB24SC24	SVB48SC24
<b>Output Characteristic</b>					
Output Voltage [V]	5	12	15	24	48
Output Current [A]	10.0	4.3	3.4	2.5	1.1
Voltage Adjust Range	+/-10% of Rated Output Voltage(at no load within input range)				
Ripple and Noise[mVp-p](maximum) *2	150	220	250	340	580
<b>Regulation</b>					
a.Statistic Line Regulation [mV](maximum)	40	96	120	192	384
b.Statistic Load Regulation [mV](maximum)	45	108	135	216	432
c.Temperature Coefficient *3	0.03%/°C				
d.Drift[mV](maximum) *4	40	75	90	135	255
e.Dynamic Load Regulation [mV](typical) *5	150	360	450	720	1440
f.Recovery Time *5	0.3mS(typical)				
Rise up time	50mS(maximum) at 25°C and rated input/output				
Hold up time	Not specified				
<b>Functions</b>					
Over current Protection	Current Limiting with automatic recovery				
≥110% of Rated Output [A]	11.00	4.73	3.74	2.75	1.21
Over voltage Protection	Output shutdown(to reset, leave 1minute after shutdown)				
≥110% of Rated Output [V]	5.50	13.2	16.5	26.4	52.8
Remote Sense	not available				
Remote On/Off	not available				
Reverse Voltage Protection	by internal fuse				
<b>Environmental</b>					
Operating Temperature	0 to +50°C				
Operating Humidity	85%RH(non-condensing)				
Storage Temperature	-20 to +85°C				
Storage Humidity	85%RH(non-condensing)				
Withstanding Voltage	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 <sup>2</sup> ,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)				
Shock	294m/s <sup>2</sup>				
Cooling	Convection				
<input type="checkbox"/> Line Conduction Noise	Not specified				
<input type="checkbox"/> Safety	-				
<input type="checkbox"/> Weight (typical)	410g				
<input type="checkbox"/> MTBF [H]	750,000				
<input type="checkbox"/> Switching Frequency[kHz](typical)	90 Fix.	90 Fix.	90 Fix.	90 Fix.	90 Fix.

Conditions:

\*1 at DC24V and rated output

\*2 measured by a bayonet probe at the output connector at a 0 to 100MHz bandwidth

\*3 at 0 to +50°C

\*4 for 7hours from 1hour after switch-on at 25°C and rated input/output

\*5 when output current changed from 25% to 75% of rated output current rapidly at DC24V input



**ETA-USA**

HIGH QUALITY SWITCHING POWER SUPPLIES

ETA-USA Tel: 408-778-2793 Fax: 408-779-2753 e-mail: [sales@eta-usa.com](mailto:sales@eta-usa.com)