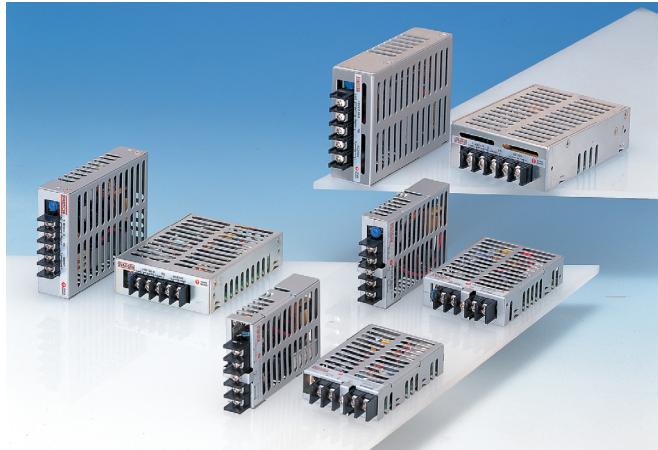


50 WATT AC-DC CONVERTER SVB-SA SERIES



The SV-series has been developed to follow ETA's philosophy of "Miniaturization and high efficiency" of power supplies. There are two inputs available: SVA..-SA is designed for 100VAC; SVA..-SB is usable with 200VAC. The small size and high efficiency are suitable for many applications, especially small equipment.

Application

Industrial

Input

Input Voltage: AC85-132V

Efficiency: 77%

Features

1. Very small (one of the smallest in Japan)
2. No derating when mounted on a horizontal surface
3. Low impedance capacitors
4. Over voltage protection
5. EMI: Complies with FCC/A

Options

Specifications<AC/DC>

SVBSA
50WATTS/SINGLE**

Model

SVB05SA	SVB12SA	SVB15SA	SVB24SA	SVB48SA
---------	---------	---------	---------	---------

Input Characteristic

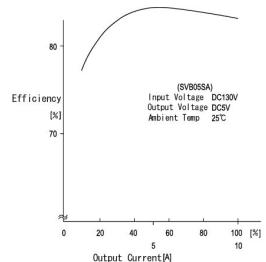
Input Voltage	AC100V			
Input Range	AC85-132V(DC110-175V)			
Input Frequency	50/60Hz			
Input Frequency Range	47-440Hz			
Phase	Single			
Inrush Current *1	30A(maximum)at AC100V			
Efficiency [%] (typical) *2	82	84	85	86
				87


ETA-USA

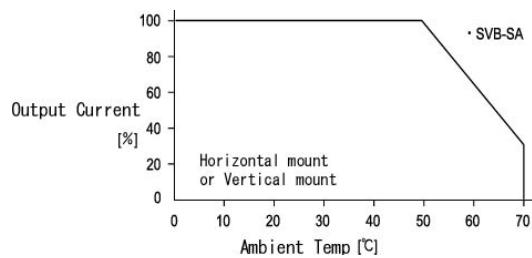
HIGH QUALITY SWITCHING POWER SUPPLIES

ETA-USA Tel: 408-778-2793 Fax: 408-779-2753 e-mail: sales@eta-usa.com

Efficiency Curve

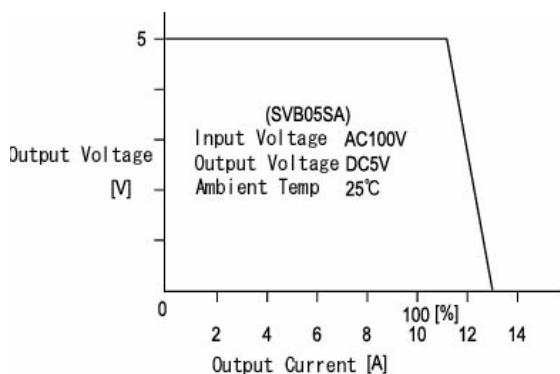


Derating Curve



SVB05SA_K

OCP Curve



ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

ETA-USA Tel: 408-778-2793 Fax: 408-779-2753 e-mail: sales@eta-usa.com

SVBSA Specification**

Specifications<AC/DC>	Model					
SVB**SA 50WATTS/SINGLE	SVB05SA	SVB12SA	SVB15SA	SVB24SA	SVB48SA	
Input Characteristic						
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 the input range)					
Ripple and Noise [mVp-p](maximum) *3	150	220	250	340	580	
Regulation						
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 *4	0.03%/°C					
d.Drift[mV](maximum) *5	40	75	90	135	255	
e.Dynamic Load Regulation [mV](typical) *6	150	360	450	720	1440	
f.Recovery Time *6	0.3mS(typical)					
Rise up time	500mS(maximum) at 25°C and rated input/output					
Hold up time	20mS(minimum) at 25°C and rated input/output					
Functions						
Overcurrent Protection	≥110% of	Current Limiting with automatic recovery				
Rated Output Current[A]		11.0	4.73	3.74	2.75	1.21
Overvoltage Protection	≥110% of	output shutdown(to reset,leave 1minute after shut-off)				
Rated Output Voltage[V]		5.50	13.2	16.5	26.4	52.8
Remote Sense	not available					
Remote On/Off	not available					
Environmental						
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 AC1,500V for 1minute Primary-Frame Ground AC1,500V 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 ,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)					
Shock	294m/s ²					
Cooling	Convection					
? Leakage Current	1mA(maximum) at 25°C,rated input/output and rated input frequency					
? Safety						
? Weight (typical)	280g					
? MTBF [H]	610,000					
? Switching Frequency[kHz](typical)	130					

Conditions:

*1 at cold start

*2 at DC130V input and rated output

*3 measured by a bayonet probe at output connector at 0 to 100MHz bandwidth

*4 at 0 to +50°C

*5 for 7hour period after 1hour warm-up at 25°C and rated input/output

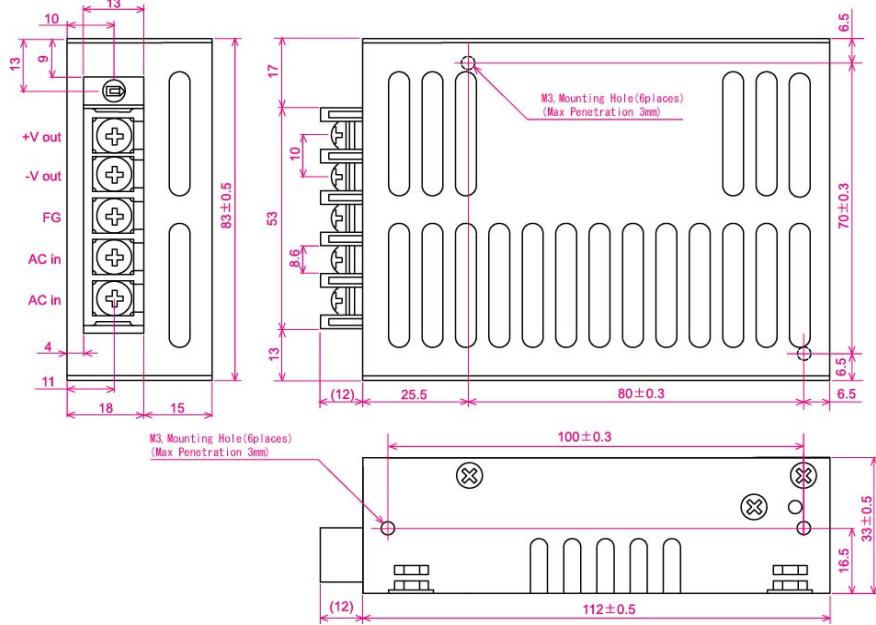
*6 when output current changed from 25% to 75% of rated output current rapidly at AC100V input


ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

ETA-USA Tel: 408-778-2793 Fax: 408-779-2753 e-mail: sales@eta-usa.com

Dimension (mm)



ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

ETA-USA Tel: 408-778-2793 Fax: 408-779-2753 e-mail: sales@eta-usa.com