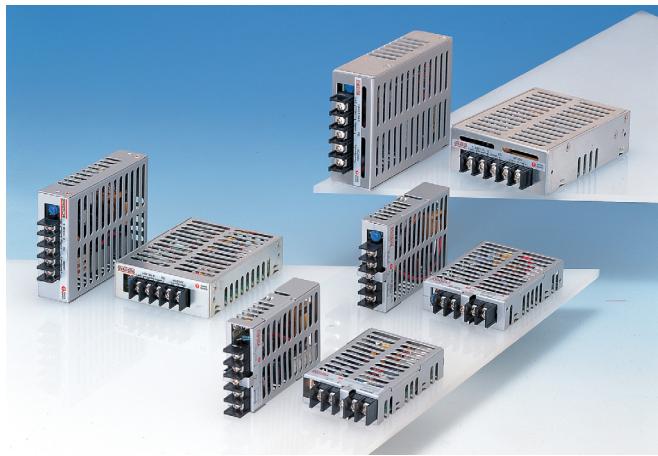


SVS Series



General Description

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

RoHS

DIMENSIONS:

52W x 77L x 18.5H (mm) 100g

Application

Industrial

Input

Input Voltage Range:	AC85-132V
Efficiency:	77%
Frequency:	50/60Hz
Input Frequency Range:	47~440Hz
Phase:	Single
Inrush Current: *1	20A max at AC100V

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**

Options

Wire harness


ETA-USA

HIGH QUALITY SWITCHING POWER SUPPLIES

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Output Characteristic	Unit	Models				
		SVS05SA	SVS12SA	SVS15SA	SVS24SA	SVS48SA
<i>Output Voltage</i>	Vdc	5	12	15	24	48
Output Current	A	2	.84	.67	.42	.21
Ripple & Noise(max)	mVpp	100	170	200	290	530
Voltage Adjust Range	V	$\pm 3\%$ of rated output				
Rise time *4	ms	100 ms max				
Hold up time *4	ms	10 ms min				
Regulation						
a. Line Regulation [max]	mV	40	96	120	192	384
b. Load Regulation	mV	45	108	135	216	432
c. Temperature Coefficient		0.03% / °C				
d. Drift(maximum)	mV	40	75	90	135	255
e. Dynamic Load fluctuation	mV	150	360	450	720	1440
f. transient recovery time		2 ms typical				
Efficiency *1	%	82	82	82	86	86
Power Factor *1		No power factor needed				

*1 Rated input and Rated output

*2 at Output current quick change 25% to 75%

*3 At 100% load (convection cooling)

*4 Cold start at 25 °C Ambient temp.


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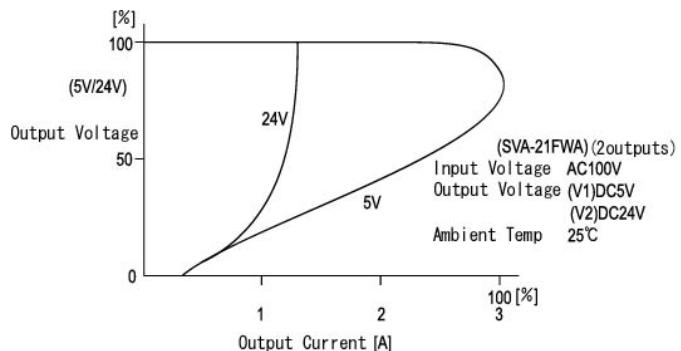
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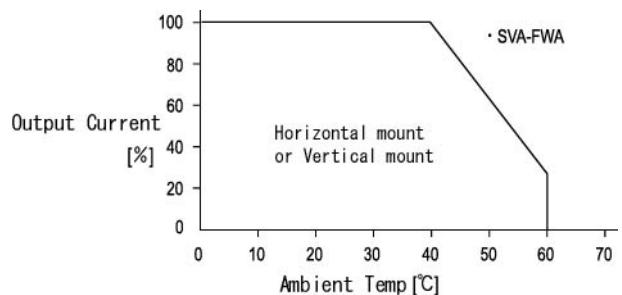
Environmental Specification	
Operating Temperature*3	0 to +50 °C
Operating Humidity	20~90% RH non condensing
Storage Temperature	-20 to +85 °C
Withstanding Voltage	Primary-Secondary AC1,500V for 1minute Primary-Frame Ground AC1,500V for 1minute Secondary-Frame Ground AC500V for 1minute
Isolation Resistance	Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation tester
Vibration	5~10Hz:10mm double amplitude, 10-55Hz:19.6m/s ² , 30 minute cycle each along X,Y,Z axes(non-operating)
Shock	294 m/s ² on x,y,z axis
Cooling	Convection
MTBF	910,000 hours
Function/Protection	
Over current Protection	Automatic return, letter hanging at 110% of rated output
Short circuit Protection	Zener system at 105% of rated output
Remote Sense	Not Available
Remote Control	Not Available
Mechanical	
Dimension [mm]	52W x 77L x 18.5H
Weight [g] (typical)	100g


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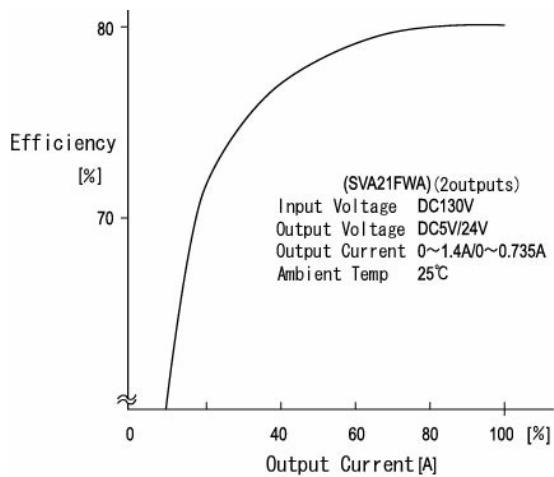
OCP Curve



Derating Curve



Efficiency Curve

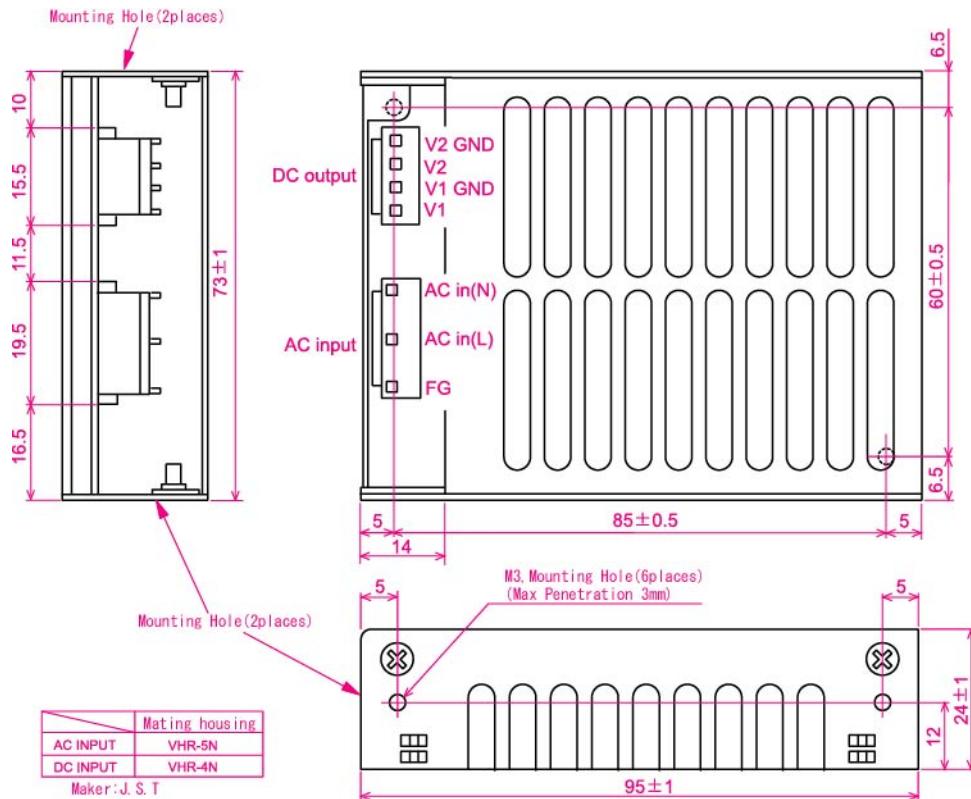


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Dimension Diagram



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