



## SVA-SC

## 25W

### SV Series

SVA-SC, SVA-SD 25W  
SVM-SC, SVM-SD 15W  
SVB-SC, SVB-SD 50W  
OUTPUT: SC SINGLE, SD DUAL  
Closed Frame



#### 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**



MODEL/CHANNEL		Unit	SVA05-SC12	SVA12-SC12	SVA15-SC12	SVA24-SC12	SVA48-SC12	
OUTPUT (Single)	Output Voltage (12, 24, & 48V)	Vdc	5	12	15	24	48	
	Output Current	A	5	2.1	1.7	1.1	0.5	
	Line Regulation	mV	40	96	120	192	384	
	Load Regulation	mV	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 (12, 24V)	-	100mS(maximum) at 25°C and rated input/output					
	Rise Time 48V	-	500mS(maximum) at 25°C and rated input/output					
	Recovery Time 12V	-	2mS(typical)					
	Recovery Time (24, 48V)	-	0.3mS(typical)					
Temp Coefficient	°C	0.03%/°C						
Function	Over Current Protection	A	Current Limiting with automatic recovery					
	105% of Rated Output Current	-	5.5	2.31	1.87	1.21	0.55	
	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					





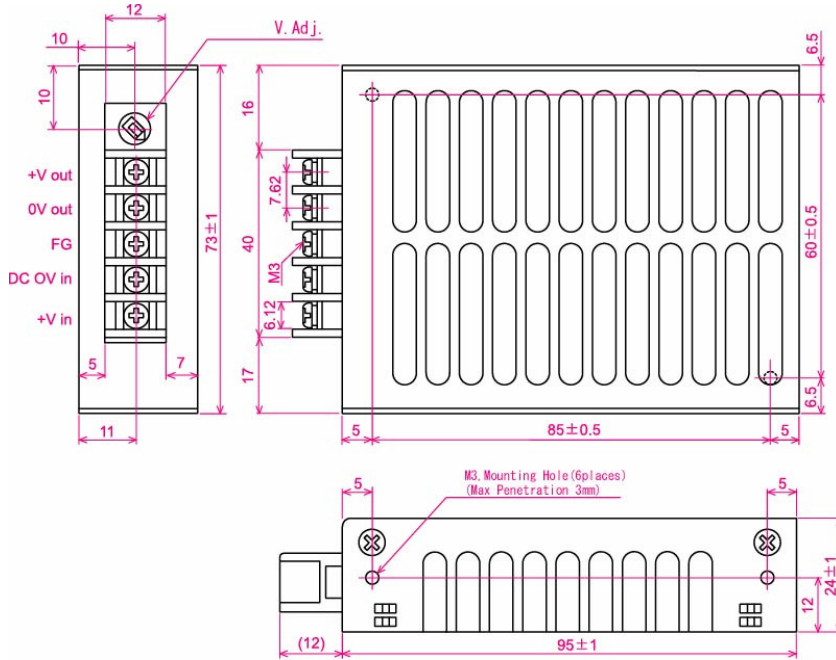
MODEL/CHANNEL		Unit	SVA05-SC12	SVA12-SC12	SVA15-SC12	SVA24-SC12	SVA48-SC12
<b>INPUT</b>	Input Voltage <b>12V</b>	Vdc	DC12V				
	Ref. MTBF	H	640,000				
	Input Voltage Range	Vdc	DC9.2-16V				
	Efficiency	%	78	80	81	83	83
MODEL/CHANNEL		Unit	SVA05-SC24	SVA12-SC24	SVA15-SC24	SVA24-SC24	SVA48-SC24
	Input Voltage <b>24V</b>	Vdc	DC24V				
	Ref. MTBF	H	740,000				
	Input Voltage Range	Vdc	DC19-32V				
	Efficiency	%	79	81	83	85	86
MODEL/CHANNEL		Unit	SVA05-SC48	SVA12-SC48	SVA15-SC48	SVA24-SC48	SVA48-SC48
	Input Voltage <b>48V</b>	Vdc	DC48V				
	Ref. MTBF	H	740,000				
	Input Voltage Range	Vdc	DC38-63V				
	Efficiency	%	81	84	85	87	88
MODEL/CHANNEL		Unit					
<b>Environment</b>	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	%	Secondary-Frame Ground AC 500V for 1 minute Primary-Secondary AC 2000V for 1 minute Primary-Frame Ground AC 2000V for 1 minute				
	Isolation Resistance	-	Primary-Secondary-Frame Ground 50MΩ(minimum) by DC500V insulation				
	Vibration	-	5-10Hz: 10mm double amplitude, 10-55Hz: 19.6m/s <sup>2</sup> , 20 minutes period for 60 minutes each along X, Y, Z axes(non-operating)				
	Shock	-	294m/s <sup>2</sup>				
	Cooling	-	Convection				
	Switching Frequency	kHz	90 Fix				
<b>Dimension</b>	Size(WxHxD) / Weight	mm/g	73Wx95Lx24H/210g				



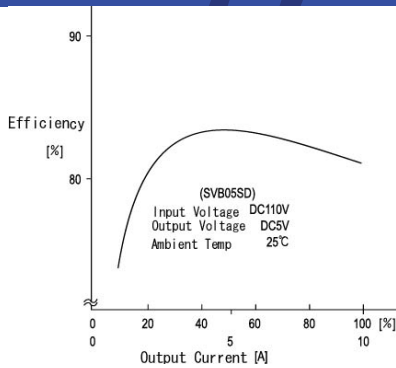


## Dimension Diagram (mm)

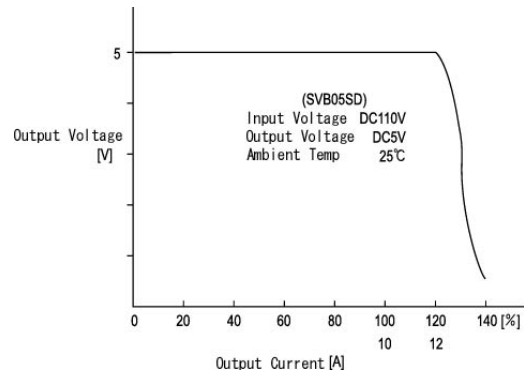
25W



## Efficiency Curve



## OCP Curve



## Block Diagram

