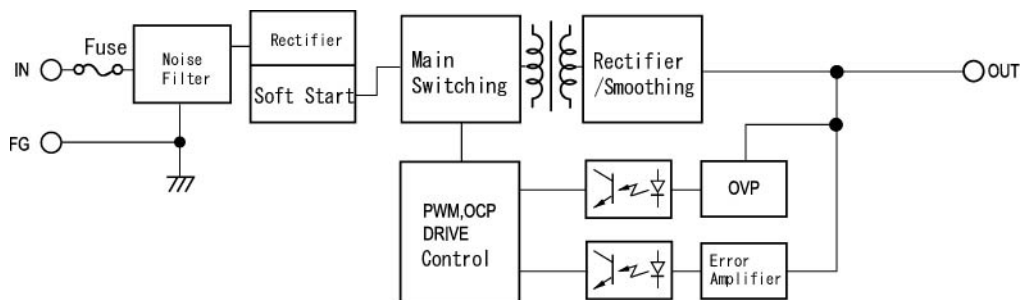


15 WATT DC-DC CONVERTER

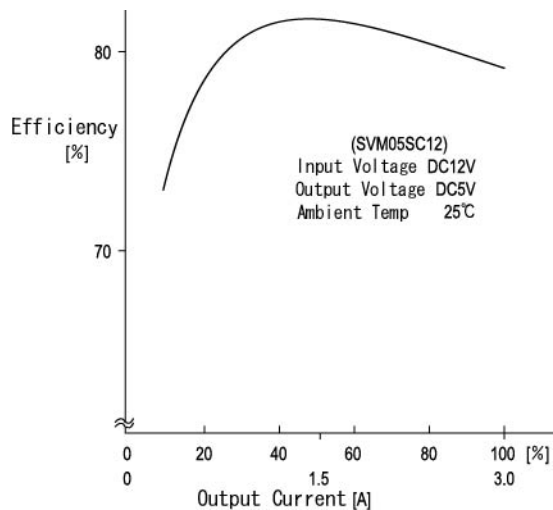
**SVM-SC12
SINGLE CHANNEL**

Specifications	Model				
SVM**SC12 15WATTS/1 OUTPUT	SVM05SC12	SVM12SC12	SVM15SC12	SVM24SC12	SVM48SC12
Input Characteristic					
Input Voltage	DC12V				
Input Range	DC9.2-16V				
Inrush Current	Not specified				
Efficiency [%] (typical) *1	79	80	82	83	83

Block Diagram

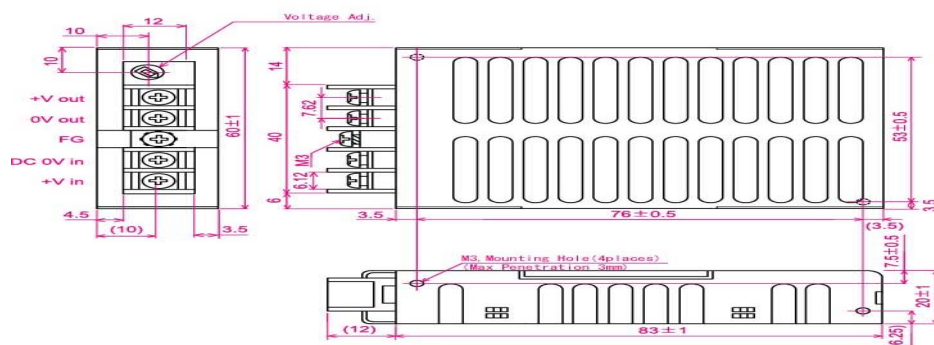


Efficiency Curve



Specifications	Model				
SVM**SC12 15WATTS/1 OUTPUT	SVM05SC12	SVM12SC12	SVM15SC12	SVM24SC12	SVM48SC12
Output Voltage [V]	5	12	15	24	48
Output Current [A]	5.0	2.1	1.7	1.1	0.5
Voltage Adjust Range	+/-10% of Rated Output Voltage(at no load within input range)				
Ripple and Noise [mVp-p](maximum) *2	100	170	200	290	530
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 *3	0.03%/				
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	0.5mS(typical)				
Rise up time	400mS (rated input/output)				
Hold up time	Not specified				
Functions					
Overcurrent Protection	Current Limiting with automatic recovery				
≥10% of Rated Output [A]	3.30	1.43	1.10	0.77	0.39
Overvoltage Protection	Output shutdown(to reset,leave 1minute after shutdown)				
≥10% 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				
Environmental					
Operating Temperature	0 to +50				
Operating Humidity	85%RH(non-condensing)				
Storage Temperature	-20 to +85				
Storage Humidity	85%RH(non-condensing)				
Withstanding Voltage	Primary-Secondary AC2,000Vfor 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 ,20minutes' period for 60minutes each along X,Y,Z axes(non-operating)				
Shock	294m/s ²				
Cooling	Convection				
Line Conduction Noise	Not specified				
Safety	-				
Weight (typical)	120g				
MTBF [H]	660,000				
Switching Frequency[kHz](typical)	90 Fix.	90 Fix.	90 Fix.	90 Fix.	90 Fix.

Dimension Diagram



SVM-SC/SD

OCP Curve

