



# ETA-USA

The Power Professionals

**SVM-SC**

**15W**

## 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

- No derating when mounted on a horizontal surface
- Low impedance capacitors
- Over voltage protection
- EMI: Complies with FCC/A
- Compact Package
- **Isolated Power Supply**



|                    | MODEL/CHANNEL                               | Unit | SVM05-SC12                                                    | SVM12-SC12 | SVM15-SC12 | SVM24-SC12 | SVM48-SC12 |
|--------------------|---------------------------------------------|------|---------------------------------------------------------------|------------|------------|------------|------------|
| OUTPUT<br>(Single) | Output Voltage ( <b>12, 24, &amp; 48V</b> ) | Vdc  | 5                                                             | 12         | 15         | 24         | 48         |
|                    | Output Current                              | A    | 3                                                             | 1.3        | 1          | 0.7        | 0.35       |
|                    | Line Regulation                             | mV   | 40                                                            | 96         | 120        | 192        | 384        |
|                    | Load Regulation                             | mVp  | 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 ( <b>12, 24V</b> )                | -    | 100mS(maximum) at 25°C and rated input/output                 |            |            |            |            |
|                    | Rise Time <b>48V</b>                        | -    | 500mS(maximum) at 25°C and rated input/output                 |            |            |            |            |
|                    | Recovery Time <b>12V</b>                    | -    | 0.5mS(typical)                                                |            |            |            |            |
|                    | Recovery Time ( <b>24, 48V</b> )            | -    | 0.3mS(typical)                                                |            |            |            |            |
|                    | Temp Coefficient                            | -    | 0.03%/°C                                                      |            |            |            |            |
| Function           | Over Current Protection                     | A    | Current Limiting with automatic recovery                      |            |            |            |            |
|                    | 105% of Rated Output Current                | -    | 3.3                                                           | 1.43       | 1.1        | 0.77       | 0.39       |
|                    | 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                                              |            |            |            |            |



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| MODEL/CHANNEL |                                        | Unit | SVM05-SC12                                                                                                                            | SVM12-SC12 | SVM15-SC12 | SVM24-SC12 | SVM48-SC12 |
|---------------|----------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
| INPUT         | Input Voltage 12V                      | Vdc  | DC12V                                                                                                                                 |            |            |            |            |
|               | Ref. MTBF                              | H    | 660,000                                                                                                                               |            |            |            |            |
|               | Input Voltage Range                    | Vdc  | DC9.2-16V                                                                                                                             |            |            |            |            |
|               | Efficiency                             | %    | 78                                                                                                                                    | 80         | 81         | 83         | 83         |
| MODEL/CHANNEL |                                        | Unit | SVM05-SC24                                                                                                                            | SVM12-SC24 | SVM15-SC24 | SVM24-SC24 | SVM48-SC24 |
|               | Input Voltage 24V                      | Vdc  | DC24V                                                                                                                                 |            |            |            |            |
|               | Ref. MTBF                              | H    | 750,000                                                                                                                               |            |            |            |            |
|               | Input Voltage Range                    | Vdc  | DC19-32V                                                                                                                              |            |            |            |            |
|               | Efficiency                             | %    | 79                                                                                                                                    | 81         | 83         | 85         | 86         |
| MODEL/CHANNEL |                                        | Unit | SVM05-SC48                                                                                                                            | SVM12-SC48 | SVM15-SC48 | SVM24-SC48 | SVM48-SC48 |
|               | Input Voltage 48V                      | Vdc  | DC48V                                                                                                                                 |            |            |            |            |
|               | Ref. MTBF                              | H    | 750,000                                                                                                                               |            |            |            |            |
|               | Input Voltage Range                    | Vdc  | DC38-63V                                                                                                                              |            |            |            |            |
|               | Efficiency                             | %    | 81                                                                                                                                    | 84         | 85         | 87         | 88         |
| MODEL/CHANNEL |                                        | Unit |                                                                                                                                       |            |            |            |            |
| Environment   | 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<br>Primary-Secondary | %    | Primary-Secondary AC2,000V for 1 minute<br>Primary-Frame Ground AC2,000V for 1 minute<br>Secondary-Frame Ground AC500V for 1 minute   |            |            |            |            |
|               | 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> ,<br>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                                                                                                                                |            |            |            |            |
|               |                                        |      |                                                                                                                                       |            |            |            |            |
| Dimension     | Weight                                 | g    | 120g                                                                                                                                  |            |            |            |            |



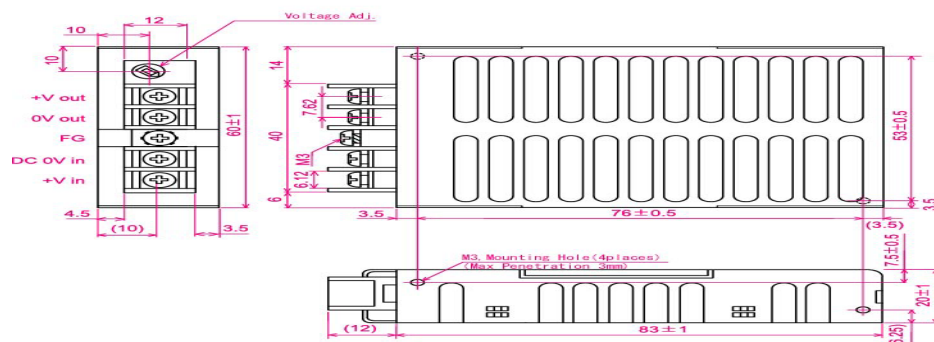


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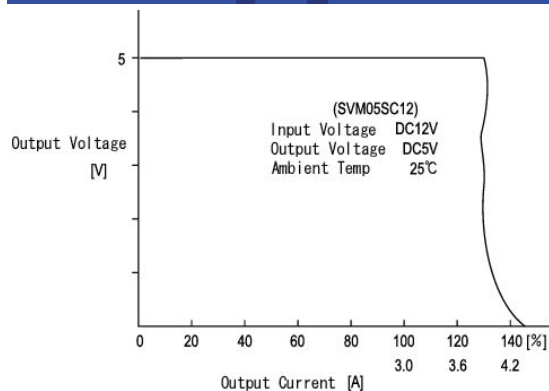
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## Dimension Diagram (mm)

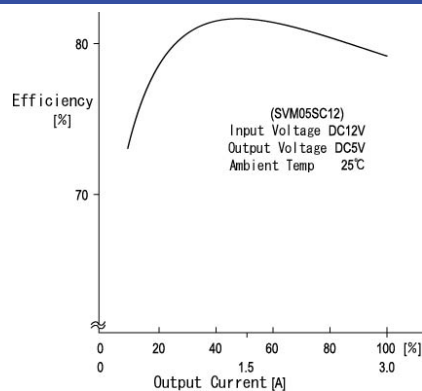
15W



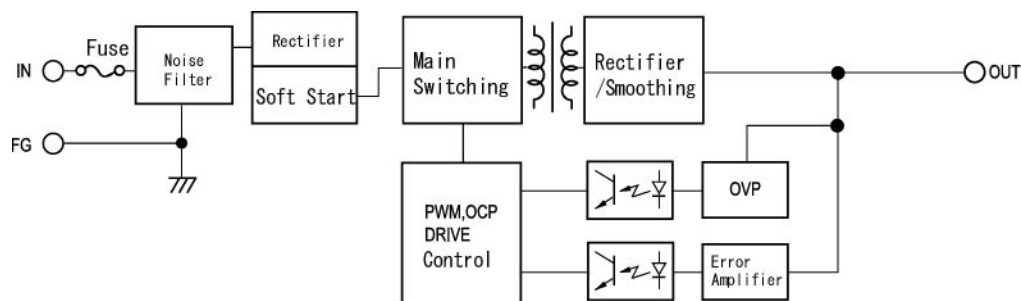
## Efficiency Curve



## OCP Curve



## Block Diagram



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