

# SGS15 Power Supply Range



## Specifications:

- Low Cost, High Reliability
- Overload and Short Circuit Protection
- Free air cooling convection
- High operating temperature up to 60°C

**ENGLISH**

| Model         |                          | SGS15-5                            | SGS15-12   | SGS15-15   | SGS15-24   |
|---------------|--------------------------|------------------------------------|------------|------------|------------|
| RS Stock Code |                          | 161-8209                           | 161-8210   | 161-8211   | 161-8212   |
| Output        | DC Voltage               | 5V                                 | 12V        | 15V        | 24V        |
|               | Rated Current            | 3A                                 | 1.3A       | 1A         | 0.7A       |
|               | Current Range            | 0~3A                               | 0~1.3A     | 0~1A       | 0~0.7A     |
|               | Rated Power              | 15W                                | 15.6W      | 15W        | 16.8W      |
|               | Ripple & Noise           | 100mVp-p                           | 120mVp-p   | 150mVp-p   | 200mVp-p   |
|               | Voltage Regulation Range | 4.5~5.5V                           | 10.8~13.2V | 13.5~16.5V | 21.6~26.4V |
|               | Voltage Accuracy         | +/- 1.0%                           |            |            |            |
|               | Line Regulation          | +/- 0.5%                           |            |            |            |
|               | Load Regulation          | +/- 2.0 %                          | +/- 1.0%   | +/- 1.0%   | +/- 1.0%   |
|               | Rise Time                | 2000ms, 50ms / 230Vac at 100% Load |            |            |            |
|               | Hold Up Time             | 20ms / 230Vac at 100% Load         |            |            |            |

|       |                          |                                  |
|-------|--------------------------|----------------------------------|
| Input | Full Input Voltage Range | 88-264Vac                        |
|       | Full Frequency Range     | 47-63Hz                          |
|       | AC Current               | 0.4A / 115Vac      0.4A / 230Vac |
|       | In Rush Current          | 40A / 230Vac                     |
|       | Leakage Current          | <3.5mA / 230Vac                  |

|            |  |  |
|------------|--|--|
| Protection | Over Load  | 110~150% rated output power  |
|            | Short Circuit  | Hiccup Mode, auto-recovery after fault condition is removed          |
| Enviroment | Working Temp   | -10°C ~ +60°C (230Vac) (Refer to output derating curve)              |
|            | Working Humidity   | 20~90%RH non-condensing  |
|            | Storage Temp   | -20°C ~ +45°C  |
|            | Storage Humidity   | 10 ~ 95%RH non-condensing  |
|            | Temp. Coefficiency   | +/-0.03% / °C (0 ~ 50°C)   |
|            | Vibration Resistance   | 10 ~ 500Hz, 2G, 10 minute cycle, X, Y, Z 60 minute in each direction |
| Saftey     | Saftey Standards   | EN60950-1, UL60950-1, CSA-C22.2 No. 60950-1 Approved                 |
|            | Withstand Voltage  | I/P-O/P: 3KVac   I/P-FG: 1.5KVac   O/P-FG: 0.5KVac                   |
|            | Isolation Resistance   | I/P-O/P, I/P-FG, O/P-FG: >50M Ω / 500VDC/ 25 °C / 70%RH              |
|            | EMC Emmision   | Compliance to EN55022 Class B, EN61000-3-2, -3                       |
|            | EMC Immunity   | Compliance to EN55024, EN61000-4-2, -3, -4, -5, -6, -8, -11          |
| Others     | Lifetime   | 50,000 Hours (25 °C)   |
|            | Size   | 85mm x 58.5mm x 36.5mm (L x W x H)                                   |
|            | Package  | 80pcs/ctn, 20KG, 0.25Kg/piece  |
| Notes      | 1)All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.<br>2)Ripple Test method: 20MHz oscilloscope in power output terminal test, oscilloscope probe wire length is not more that 12mm and input parallel 47uF electrolytic capacitors and 0.1uF high frequency capacitance probe.<br>3)The power supply is considered a component which must be installed into final equipment. The final equipment must be re-confirmed that it meets all applicable directives. |  |

# Mechanical Drawing

