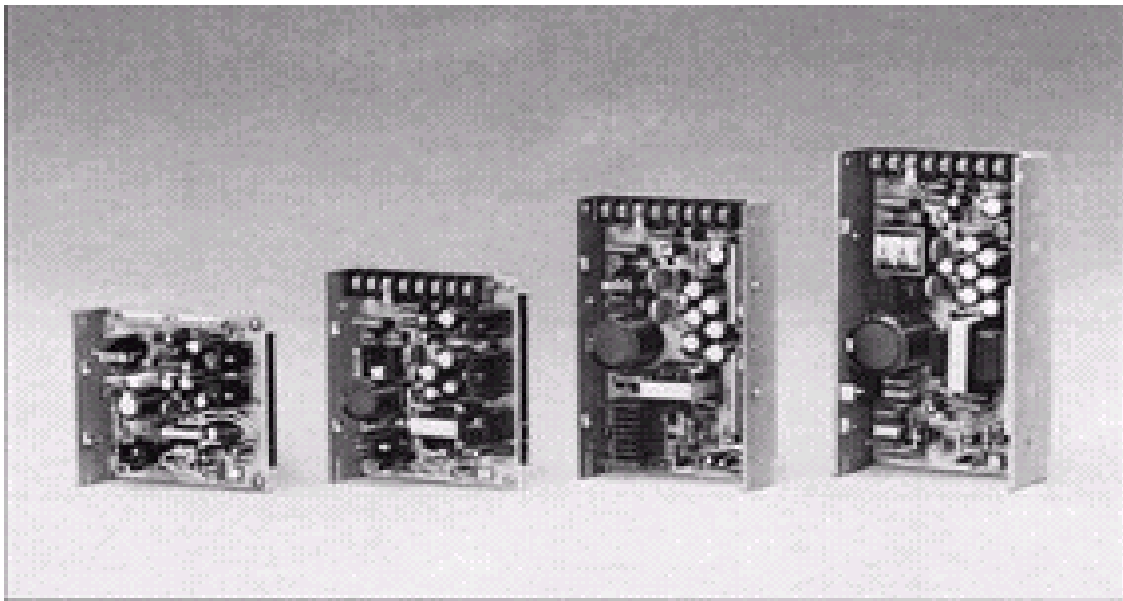


SSS SERIES

Multiple Outputs and Open/Covered Frame Switch Mode Power Supplies

Features:

- Meets FCC Class B
- Built-in EMI filter
- Meets UL, CSA and VDE approvals
- AC, DC input
- LED Display
- Built-in inrush current limiter circuit
- Insulated output between +5V and $\pm 12V(\pm 15V)$



SanKen

SanKen/Allegro 3100 Tower Blvd. 5th Fl. University Tower, Durham, NC 27707 Phone: (888)888-4914 Fax: (919)402-8540
E-mail: allegro@intrex.net

| | Rating | 9.8/11 W (1A) | | 16/17.5 W (2A) | |
|--|--------|---------------|----------|----------------|----------|
| | | | SSS50112 | SSS50115 | SSS50212 |

| Item | | Conditions | | | | | | | | | | | | | |
|---------------------------|---------------------------------------|-------------------------------|---|---------------------|----------|--------|--------|----------|-----------------------------|---------------------|----------|-----------|--------|--------|--|
| Input | Rated Input Voltage | | AC100V or DC130V | | | | | | | | | | | | |
| | Input Voltage Range | | AC85~132V or DC110~170V | | | | | | | | | | | | |
| | Input Current | Rated input/output conditions | 0.35A (typ) | | | | | | 0.5A (typ) | | | | | | |
| | Inrush Current | | 30A (typ) | | | | | | | | | | | | |
| | Rated Frequency Range | | 50/60Hz (Frequency Range 48~440Hz) | | | | | | | | | | | | |
| | Power Factor | | N/A | | | | | | | | | | | | |
| | Harmonic Attenuator | | N/A | | | | | | | | | | | | |
| | Efficiency(typ) | Rated input/output conditions | 60% | | | | | | 62% | | | | | | |
| Output | Rated Output Voltage | | +5V | +12V | -12V | +5V | +15V | -15V | +5V | +12V | -12V | +5V | +15V | -15V | |
| | Adjustable Output Voltage Range | | Fixed | | | | | | | | | | | | |
| | Rated Output Current | | 1A | 0.2A | 0.2A | 1A | 0.2A | 0.2A | 2A | 0.3A | 0.2A | 2A | 0.3A | 0.2A | |
| | Adjustable Output Current Range | | 0.1~1A | 0~0.2A | 0~0.2A | 0.1~1A | 0~0.2A | 0~0.2A | 0.3~2A | 0~0.3A | 0~0.2A | 0.3~2A | 0~0.3A | 0~0.2A | |
| | Rated Output Power | | 9.8W | | | 11W | | | 16W | | | 17.5W | | | |
| | Ripple Noise(mVp-p) | Rated input/output condition | 100 | 150 | 150 | 100 | 150 | 150 | 100 | 150 | 150 | 100 | 150 | 150 | |
| | Constant Voltage Accuracy | | ±3% | ±5% | ±5% | ±3% | ±5% | ±5% | ±3% | ±5% | ±5% | ±3% | ±5% | ±5% | |
| Other | Leakage Current | Rated input/output conditions | 0.4mA (max) | | | | | | | | | | | | |
| | Startup Time | | 100ms (typ) | | | | | | 40ms (typ) | | | 60ms(typ) | | | |
| | Switching Method, Operating Frequency | | RCC topology, approx. 30kHz (under rated input/output conditions) | | | | | | | | | | | | |
| | Output Holdup Time | Rated input/output conditions | 20ms (max) | | | | | | | | | | | | |
| Additional Functions | Over Current Protection | | Yes | | | | | | | | | | | | |
| | Over Voltage Protection | | N/A | | | | | | | | | | | | |
| | Remote Sensing | | N/A | | | | | | | | | | | | |
| | Remote On/Off Control | | N/A | | | | | | | | | | | | |
| | Thermal Protection | | N/A | | | | | | | | | | | | |
| | Parallel Operation | | N/A | | | | | | | | | | | | |
| | Protection Circuit Display | | N/A | | | | | | | | | | | | |
| | Display | | LED Display | | | | | | | | | | | | |
| Environmental | Operating Temperature | | 0~+50°C (covered: 0~+40°C) | | | | | | | | | | | | |
| | Storage Temperature | | -25~+80°C | | | | | | | | | | | | |
| | Operating Humidity | | 30~90% (No Condensation) | | | | | | | | | | | | |
| | Storage Humidity | | | | | | | | | | | | | | |
| Insulation | Insulation Withstad Voltage | Input to Output | AC1500V for 1 minute | | | | | | | | | | | | |
| | | Input to Frame | | | | | | | | | | | | | |
| | | Output to Frame | | | | | | | | | | | | | |
| | Insulation Resistance | Input to Output | 100MΩ (measured with DC500V with Megger) | | | | | | | | | | | | |
| | | Input to Frame | | | | | | | | | | | | | |
| | | Output to Frame | | | | | | | | | | | | | |
| Structural Specifications | Vibration Resistance | | 10~55Hz 1G 1 hour (X,Y, and Z directions vibration time) | | | | | | | | | | | | |
| | Cooling Requirements | | Natural Convection | | | | | | | | | | | | |
| | External Appearance (W x D x H) mm | | 35 x 99 x 97 | | | | | | 35 x 120 x 97 | | | | | | |
| | Weight (g) | | Approx. 220 (without cover) | | | | | | Approx. 310 (without cover) | | | | | | |
| Applicable Standards | Conducted Emissions | | FCC Part 15-J Class B | | | | | | | | | | | | |
| | Safety Standards | | UL478 Class 4 CSA Electrical Bulletin 1402C | | | | | | | | | | | | |
| | | Rating | | 33/30 W (3A) | | | | | | 61/55 W (5A) | | | | | |
| | | SSS50312 | | | SSS50315 | | | SSS50512 | | | SSS50515 | | | | |

| Item | Conditions | | | | | | | | | | | | | |
|---------------------------------------|------------------------------------|---|---|-------------|------------|------------|------------|-------------|-----------------------------|------------|------------|----------|------------|------------|
| Input | Rated Input Voltage | | AC100V or DC130V | | | | | | | | | | | |
| | Input Voltage Range | | AC85~132V or DC110~170V | | | | | | | | | | | |
| | Input Current | Rated input/output conditions | 0.9A (typ) | | | | | | 1.8A (typ) | | | | | |
| | Inrush Current | | 30A (typ) | | | | | | | | | | | |
| | Rated Frequency Range | | 50/60Hz (Frequency Range 48~440Hz) | | | | | | | | | | | |
| | Power Factor | | N/A | | | | | | | | | | | |
| | Harmonic Attenuator | | N/A | | | | | | | | | | | |
| | Efficiency(typ) | Rated input/output conditions | 65% | | | | | | | | | | | |
| Output | Rated Output Voltage | | +5V | +12V | -12V | +5V | +15V | -15V | +5V | +12V | -12V | +5V | +15V | -15V |
| | Adjustable Output Voltage Range | | Fixed | | | | | | | | | | | |
| | Rated Output Current | | 3A | 1.2A | 0.3A | 3A | 0.5A | 0.5A | 5A | 2.5A | 0.5A | 5A | 1.5A | 0.5A |
| | Adjustable Output Current Range | | 0.5~ 3A | 0~ 1.2A | 0~ 0.3A | 0.5~ 3A | 0~ 0.5A | 0~ 0.5A | 1~ 5A | 0~ 2.5A | 0~ 0.5A | 1~ 5A | 0~ 1.5A | 0~ 0.5A |
| | Rated Output Power | | 33W | | | 30W | | | 61W | | | 55W | | |
| | Ripple Noise(mVp-p) | Rated input/output condition | 100 | 150 | 150 | 100 | 150 | 150 | 100 | 150 | 150 | 100 | 150 | 150 |
| | Constant Voltage Accuracy | | ±3% | ±5% | ±5% | ±3% | ±5% | ±5% | ±3% | ±5% | ±5% | ±3% | ±5% | ±5% |
| | Other | Leakage Current | Rated input/output conditions | 0.4mA (max) | | | | | | | | | | |
| Startup Time | | 60ms (typ) | | | 55ms (typ) | | | 210ms (typ) | | | | | | |
| Switching Method, Operating Frequency | | RCC topology, approx. 30kHz (under rated input/output conditions) | | | | | | | | | | | | |
| Output Holdup Time | | Rated input/output conditions | 20ms (max) | | | | | | | | | | | |
| Additional Functions | Over Current Protection | | Yes | | | | | | | | | | | |
| | Over Voltage Protection | | N/A | | | | | | | | | | | |
| | Remote Sensing | | N/A | | | | | | | | | | | |
| | Remote On/Off Control | | N/A | | | | | | | | | | | |
| | Thermal Protection | | N/A | | | | | | | | | | | |
| | Parallel Operation | | N/A | | | | | | | | | | | |
| | Protection Circuit Display | | N/A | | | | | | | | | | | |
| | Display | | LED Display | | | | | | | | | | | |
| Environmental | Operating Temperature | | 0~+50°C (covered: 0~+40°C) | | | | | | | | | | | |
| | Storage Temperature | | -25~+80°C | | | | | | | | | | | |
| | Operating Humidity | | 30~90% (No Condensation) | | | | | | | | | | | |
| | Storage Humidity | | | | | | | | | | | | | |
| Insulation | Insulation Withstad Voltage | Input to Output | AC1500V for 1 minute | | | | | | | | | | | |
| | | Input to Frame | | | | | | | | | | | | |
| | | Output to Frame | | | | | | | | | | | | |
| | Insulation Resistance | Input to Output | 100MΩ (measured with DC500V with Megger) | | | | | | | | | | | |
| Input to Frame | | | | | | | | | | | | | | |
| Output to Frame | | | | | | | | | | | | | | |
| Structural Specifications | Vibration Resistance | | 10~55Hz 1G 1 hour (X,Y,and Z directions vibration time) | | | | | | | | | | | |
| | Cooling Requirements | | Natural Convection | | | | | | | | | | | |
| | External Appearance (W x D x H) mm | | 37 x160 x 97 | | | | | | 48 x 186 x 97 | | | | | |
| | Weight (g) | | Approx. 480 (without cover) | | | | | | Approx. 600 (without cover) | | | | | |
| Applicable Standards | Conducted Emissions | | FCC Part 15-J Class B | | | | | | | | | | | |
| | Safety Standards | | UL478 Class 4 CSA Electrical Bulletin 1402C | | | | | | | | | | | |