

KEY FEATURES

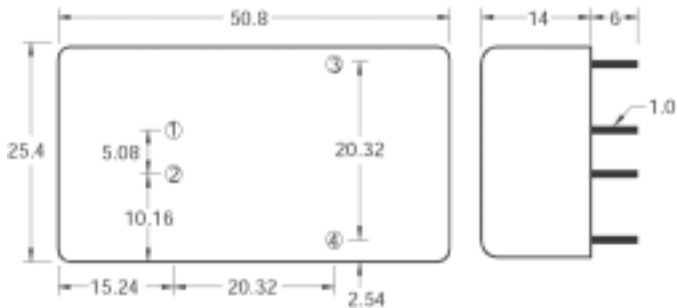
- Power Modules for PCB Mounting
- Regulated Output
- Low Ripple and Noise
- 2-Year Product Warranty


ELECTRICAL SPECIFICATIONS

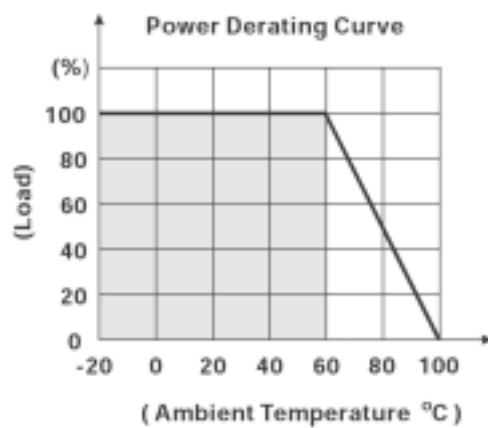
| Model No. | SA 06-24-3.3S | SA 06-24-5S | SA 06-24-12S | SA 06-24-15S | SA 06-24-24S |
|-------------------------|---------------|--------------|--------------|--------------|--------------|
| Max. output wattage (W) | 5W | 6W | 6W | 6W | 6W |
| Input voltage (V.DC.) | 24V (18-36V) | 24V (18-36V) | 24V (18-36V) | 24V (18-36V) | 24V (18-36V) |
| Output voltage (V.DC.) | 3.3V / 1500mA | 5V / 1200mA | 12V / 500mA | 15V / 400mA | 24V / 250mA |

| Model No. | SA 06-24-3.3S | SA 06-24-5S | SA 06-24-12S | SA 06-24-15S | SA 06-24-24S | |
|------------------------|----------------------------------|---|--------------|--------------|--------------|-------------|
| Max output wattage (W) | 5W | 6W | 6W | 6W | 6W | |
| Input | Input filter | π type | | | | |
| | Voltage (V.DC.) | 3.3 | 5 | 12 | 15 | 24 |
| Output | Voltage accuracy | $\pm 2\%$ | $\pm 2\%$ | $\pm 2\%$ | $\pm 2\%$ | $\pm 2\%$ |
| | Current (mA) max | 1500 | 1200 | 500 | 400 | 250 |
| | Line regulation (HL-LL) (typ.) | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ | $\pm 0.5\%$ |
| | Load regulation (10-100%) (typ.) | $\pm 1\%$ | $\pm 1\%$ | $\pm 1\%$ | $\pm 1\%$ | $\pm 1\%$ |
| | Ripple | <0.2% Vout +20mV max (Vp-p) | | | | |
| | Noise | <0.5% Vout +50mV max (Vp-p) | | | | |
| | Efficiency | 76% | 79% | 82% | 82% | 83% |
| | Switching frequency | 125KHz | 125KHz | 125KHz | 125KHz | 125KHz |
| Protection | Over current protection | Works over 120% of rating and recovers automatically. | | | | |
| | Over voltage protection | Zener diode clamp | | | | |
| | Short circuit protection | Current limit, auto-recovery | | | | |
| Isolation | Voltage | 1600 VDC. | | | | |
| | Resistance | 10^9 ohms | | | | |
| | Capacitance | 1000 pF | | | | |
| Environment | Operating temperature | -25°C...+71°C | | | | |
| | Storage temperature | -55°C...+105°C | | | | |
| | Case temperature | +95°C max. | | | | |
| | Temperature coefficient | $\pm 0.02\%$ Per°C | | | | |
| | Humidity | 95%RH | | | | |
| Physical | MTBF | >800,000 h @ 25°C (MIL-HDBK-217F) | | | | |
| | Dimension (L x W x H) | 2.0 x 1.0 x 0.55 Inches (50.8 x 25.4x 14 mm) | | | | |
| | Case Material | Six-side shielded Aluminum with Non-Conductive base | | | | |
| | Weight | 25 g | | | | |
| | Cooling method | Free-air convection | | | | |

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

MECHANICAL DIMENSION (Top View)


| PIN# | Single |
|------|---------|
| 1 | -DC IN |
| 2 | +DC IN |
| 3 | -DC OUT |
| 4 | +DC OUT |

DERATING

BLOCK DIAGRAM
Single Output
