



samlexamerica®

23A



Desktop Switching Power Supply
Built-in Battery Backup Circuit

Model
SEC-1223BBM-230
13.8 VDC
230 VAC
23 Amps

3 YEAR WARRANTY

Design Features

- Advanced Switch Mode Technology
- Reliable, 12V Nominal DC Uninterruptible Power Source (DC UPS) in conjunction with external 12V Lead Acid Battery backup
- High efficiency, compact and portable
- Protected against short circuit, overload, over voltage and over temperature
- Cooling by temperature controlled fan improves efficiency and prolongs life of the fan
- Conforms to European safety and EMI/EMC requirements

| MODEL NO. | | SEC-1223BBM-230 |
|------------------------------------|---|--|
| AC INPUT | INPUT VOLTAGE | 230 VAC Nominal ($\pm 10\%$), 50 Hz |
| | INPUT CURRENT AT: INPUT VOLTAGE: 230 VAC; OUTPUT VOLTAGE: 13.8V; OUTPUT CURRENT: 23A | 2.75A @ 230 VAC |
| | INPUT CURRENT AT NO LOAD | 105 mA $\pm 10\%$ |
| | INRUSH CURRENT AT STARTUP | 32A $\pm 5\%$ for 2.4 ms |
| DC OUTPUT | OUTPUT VOLTAGE | Load Terminals: 13.8 VDC / Battery Terminals: 13.8 VDC |
| | OUTPUT VOLTAGE NOISE AND RIPPLE | < 150 mV Peak to Peak |
| | CONTINUOUS OUTPUT CURRENT/ LOAD TERMINALS / BATTERY TERMINALS | 23A / 19A / 4A |
| | OUTPUT CURRENT LIMIT / LOAD TERMINALS / BATTERY TERMINALS | 25A / 21A / 4A |
| | EFFICIENCY AT FULL LOAD | 87% $\pm 5\%$ |
| EXTERNAL BATTERY (NOT INCLUDED) | VOLTAGE / CAPACITY | 12V / 40Ah to 100Ah; Lead Acid |
| PROTECTIONS | SHORT CIRCUIT, OVERLOAD | Output voltage drops; Auto reset |
| | OVER VOLTAGE | Regulated by PWM Controller |
| | OVER TEMPERATURE | Output shuts down (Internal hot spot $\geq 100^\circ\text{C}$ / 212°F); Auto reset on cooling down |
| COOLING | FORCED AIR | Temperature controlled fan (ON when internal hot spot $\geq 70^\circ\text{C}$ / 158°F) |
| FUSES | INTERNAL AC SIDE FUSE | 5 mm x 20 mm Glass Fuse / 250V, 4A, Time Delay Type |
| | EXTERNAL DC SIDE FUSE FOR EXTERNAL BATTERY (BY USER) | - 32V, 25A, Fast Acting - In series with Positive Battery Terminal and output terminal marked "Battery +" - Within 7" of the Battery Positive Terminal |
| | COMPLIANCE | SAFETY EMI / EMC |
| INPUT/OUTPUT CONNECTIONS | AC INPUT CONNECTION | - "IEC 320-C14" Inlet Connector on the unit - Detachable Power Cord with: - "IEC 320-C13" Connector on one end - "Schuko" Plug on the other end |
| | DC OUTPUT CONNECTORS FOR LOAD AND BATTERY CONNECTIONS | Terminal with Tubular Hole - Diameter 5mm / 0.2" and set screw (#10, 24 TPI, 5/16" long) |
| | BATTERY CABLES | Minimum AWG #10 as per NEC Table 310.15(B)(17) - Ampacity 40A (1.25 times Maximum current of 25A) - Conductor temperature rating of 75°C / 167°F |
| ENVIRONMENT | OPERATING TEMPERATURE RANGE | 0°C to 40°C / 32°F to 104°F |
| GENERAL | DIMENSIONS (W x D x H) MM/INCH | 185 x 240.5 x 61 / 7.28 x 9.47 x 2.40 |
| | WEIGHT (KG/LB) | 1.6 / 3.4 |

NOTE: Specifications are subject to change without notice

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