



samlexamerica®

23A



Desktop Switching Power Supply  
Built-in Battery Backup Circuit

Model  
SEC-1223BBM  
13.8 VDC  
120 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
- UL safety listed as "Information Technology Equipment Power Supply" for USA (UL Standard ANSI/UL-60950-1) and for Canada (CSA Standard CAN/CSA-C22.2 No. 60950-1)
- Complies with FCC Part 15(B), Class B for limits on conducted and radiated Electromagnetic Interference (EMI)

		MODEL NO.	SEC-1223BBM
AC INPUT	INPUT VOLTAGE	120 VAC Nominal (+6% / -10%), 60 Hz	
	INPUT CURRENT AT: INPUT VOLTAGE: 120 VAC; OUTPUT VOLTAGE: 13.8V; OUTPUT CURRENT: 23A	5.5A @ 120 VAC	
	INPUT CURRENT AT NO LOAD	53 mA ± 10%	
	INRUSH CURRENT AT STARTUP	28A ± 5% for 2.8 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	85% ± 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 ≥ 100°C / 212°F); Auto reset on cooling down	
COOLING	FORCED AIR	Temperature controlled fan (ON when internal hot spot ≥ 70°C / 158°F)	
FUSES	INTERNAL AC SIDE FUSE	5 mm x 20 mm Glass Fuse / 250V, 6.3A, Time Delay Type Bussmann: "GDC-6.3"; Littelfuse - "21806.3"	
	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	UL safety listed as "Information Technology Equipment Power Supply" for USA (UL Standard ANSI/UL-60950-1) and for Canada (CSA Standard CAN/CSA-C22.2 No. 60950-1)	
	ELECTRO MAGNETIC INTERFERENCE (EMI)	FCC Part 15(B), Class B	
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 & NEMA5-15P 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

12001-SEC-1223BBM-0713