



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