



WARRANTY

Desktop Switching Power Supply **Built-in Battery Backup Circuit**

Model SEC-1223P-BBM 13.8 VDC 120 VAC 23 Amps

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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 power supply.

		SEC-1223P-BBM	
	MODEL NO.	Input: 115A Input: 230V	
AC INPUT	INPUT VOLTAGE RANGE / FREQUENCY	100-240 VAC / 50/60Hz	
	INPUT CURRENT	3.01A at 120 VAC 1.49A at 240 VAC 3.15A at 115 VAC 1.55A at 230 VAC 3.68A at 100 VAC	
	INPUT INRUSH CURRENT ON SWITCHING ON	30A (Cold start) 60A (Cold start)	
	INPUT POWER FACTOR AT FULL LOAD	0.99PF 0.97PF	
	INPUT NO LOAD POWER DRAW	< 0.17W < 0.45W	
	INPUT PFC SWITCHING FREQUENCY	25 – 68KHz	
OUTPUT	OUTPUT VOLTAGE AT LOAD TERMINALS	 When AC Input is available: 13.8 ±0.2 VDC When AC Input is not available, (unit is in Battery Backup Mode): 13.8 ±0.2 VDC 	
	OUTPUT VOLTAGE AT BATTERY TERMINALS (AC INPUT IS AVAILABLE)		
	OUTPUT CURRENT AT LOAD TERMINALS (WITHOUT BATTERY)		A
	OUTPUT CURRENT (BATTERY CONNECTED) AT LOAD TERMINALS		/
	OUTPUT CURRENT (BATTERY CONNECTED) AT BATTERY TERMINALS DURING CHARGING	4A with battery discharged to 11.15V	
	OUTPUT POWER	317.4W	
	AVERAGE EFFICIENCY WITH BATTERY BACKUP	> 86 % > 88 % (Load:19A / Batt:4A) (Load:19A / Batt:4A	A)
	AVERAGE EFFICIENCY WITHOUT BATTERY BACKUP (AS POWER SUPPLY ONLY)		
	PWM SWITCHING FREQUENCY	75 – 150KHz	
	OUTPUT RIPPLE AND NOISE	100mV peak to peak 70mV peak to peak to peak to peak to peak to peak at full load	k

NOTE: Specifications are subject to change without notice

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Desktop Switching
Power SupplyModelBuilt-in Battery
Backup CircuitSEC-12213.8 VD
120 VAC
23 Amp

Model SEC-1223P-BBM 13.8 VDC 120 VAC 23 Amps

	MODEL NO.	SEC-1223P-BBM Input: 115A Input: 230V
OUTPUT	OUTPUT VOLTAGE ADJUSTMENT RANGE	12.5-15 VDC
(CONTINUED)	OUTPUT VOLTAGE TOLERANCE AT NO LOAD	± 0.05 VDC
PROTECTIONS	OVERLOAD AND SHORT CIRCUIT WITHOUT A BATTERY	Hiccup Mode at 27.6A to 29A. • Auto reset when fault is removed.
	OVERLOAD AND SHORT CIRCUIT WITH A BATTERY	External 25A Battery Side / Load Side Fuses will blov
	REVERSE POLARITY CONNECTION ON THE BATTERY SIDE	External 25A Battery Side Fuse will blow
	OUTPUT OVER VOLTAGE PROTECTION	By PWM Controller (16.5±0.5 VDC)
	COOLING	Temperature controlled fan: • ON when the temperature of Secondary Heat Sink reaches 55°C ± 5°C • Off when the temp. drops to 45°C ± 5°C.
	OVER TEMPERATURE PROTECTION	The unit will shut down when the Primary Heat Sink temperature rises to 105°C ± 5°C. • Reset when temp. drops to 75°C ± 5°C
	INTERNAL AC SIDE FUSE	250V, 4.0A; Time Delay Type; 5mm x 20mm
ENVIRONMENTAL	OPERATING TEMPERATURE	At 100% Rated Power: -20 °C to +50°C: 100% rated po At 80% De-Rating: 50 ~ 60°C: Linearly de-rate from 10 power at 50°C to 80% power at 60°C.
	STORAGE TEMPERATURE	-30°C to 70°C / -22°F to 158°F
	RELATIVE HUMIDITY	Maximum 90%, Non Condensing
	UL SAFETY LISTED: USA	UL 62368-1,2014-12-1
COMPLIANCE: SAFETY	UL SAFETY LISTED: CANADA	CSA C22.2 No. 62368-1-14, 2014-12
	EUROPEAN, CE SAFETY MARKED	EN 62368-1: 2014+A11:2017
COMPLIANCE: EMC	USA	 FCC Part 15 Sub Part B Class B ANSI C63.4-2014 CISPR 22: 2008 Class B
	CANADA	 ICES-003 Issue 6:2016 Class B CISPR 22:2008 Class B CAN/CSA-CISPR 22-10 Class B ANSI C63.4-2014
		 EN 55032: 2015+AC: 2016 Class B CISPR 32: 2015 Class B EN 61000-3-2: 2014 Class D EN 61000-3-3:2013 EN 55024: 2010+A1: 2015 EN 61000-4-2:2009 EN 61000-4-3: 2006+A1: 2008+A2: 2010 EN 61000-4-4: 2012 EN 61000-4-5: 2014 EN 61000-4-6: 2014+AC: 2015 EN 61000-4-8: 2010 EN 61000-4-11: 2004
COMPLIANCE: RoHS2	FOR EUROPEAN CE MARK	2011/65/EU (RoHS2)
DIMENSIONS / WEIGHT	DIMENSIONS (W X D X H)	185 x 240.5 x 57.8mm / 7.28 x 9.47 x 2.28 in
	WEIGHT	1.81 kg / 4 lb

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12001-SEC-1223P-BBM-0824

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