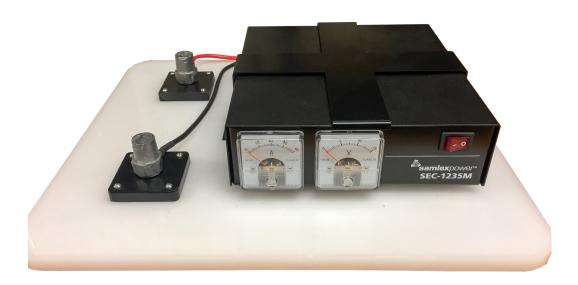


### EM-200-31 (53220)

## **EM-200 SERIES POWER SUPPLY**

4210 rue Jean-Marchand, Québec, Québec G2C 1Y6 Canada Phone: 418-688-9067 / 800-567-0791 Fax: 418-843-3444 Email: info@consulab.com



The ConsuLab EM-200-31 Power Supply provides the following features to power up various training aids without the use of a standard lead-acid battery:

- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Circuit innovations minimize output voltage ripple and RFI
- Input voltage can be set at 120VAC or 240VAC (internal jumper)
- UL listed to both USA & Canadian safety standards

The power supply is protected against overload by constant current limiting at 35 A. If the load tries to draw more than 35 A, the output voltage drops and is no longer regulated. It drops to near 0 V in case of a dead short. The unit will recover automatically once the overload condition is removed.

Protection is provided to shut down the EM-200-31 power supply in case the fan fails or if the air flow is blocked or if the ambient temperature is very high. A temperature sensor is mounted on the power transformer and will activate at 105° C  $\pm$  5° C (221° F à  $\pm$  40° F) and shut down the output of the power supply. After the power supply cools down to 95° C  $\pm$  5° C (203° F à  $\pm$  40° F), the temperature sensor will de-activate and the power supply will resume operation automatically.

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## EM-200-31 (53220)

# **EM-200 SERIES POWER SUPPLY**

#### **SPECIFICATIONS**

Manufacturer and model number :	SamlexPower, model No SEC-1235M
Nominal Input Voltage:	120 VAC, 60 Hz (100 VAC to 130 VAC) – Factory preset; 230 VAC, 50 Hz / 60 Hz (200 VAC to 260 VAC) – By internal setting
Input current:	7.5 A at 120 VAC, 60 Hz; 3.5 A at 230 VAC 50 / 60 Hz
Output Voltage:	13.8 VDC
Output voltage adjustment:	11.5 V to 15.5 V with the help of internal potentiometer
Output current:	30 A continuous
Current limit:	35 A, constant current limiting, auto recovery
No load current draw:	120 mA at 120 VAC
Ripple:	50 mV peak to peak
Noise:	150 mV peak to peak
Peak Efficiency:	85 %
Cooling:	Temperature controlled fan
Output indications:	Voltmeter, 0-40 VDC, et ammeter, 0-15 ADC
Protections against:	Overload, short circuit and over temperature
Operating temperature:	0 - 40° C (0 - 104° F)
Safety Certification:	cULusa, UL60950-1, E179076
EMI (Emissions) compliance:	FCC Part 15 (B) for Class B devices
AC input connections:	Male AC inlet connector Type "IEC 320-C14"  Detachable AC power cord with:  - Female connector Type "IEC 320-C13" on one end to mate with AC power inlet connector on the power supply  - Male, 2 pole 3 Wire grounding (3 prong) plug Type "NEMA5-15P" on the other end for connection to the AC outlet
DC output connections:	RED (+) and BLACK (-) terminals with tubular hole and set screw. Hole diameter 0.2 ", (5 mm). Includes a pair of copper terminal lugs for crimping to output wires to the load
Input side fuse:	Littelfuse Model 218008, 250 VAC, 8 A (120 VAC); Model 218004, 250 VAC, 4 A (230 VAC)
Dimensions (Training Board):	22 x 22 x 13 in (55 x 55 x 32.5 cm) w/packaging
Weight (Training Board):	35 lb w/packaging