

FEATURES

- AC inputs - 230VAC or 3PH 208VAC
- 110V or 135V Programmable Output
- 7200W Peak Power @ 70C
- 85% Efficient
- Over Current & Voltage Protection
- Operational Redundancy with two Units
- Operates from -30C to +70C
- No Cooling Fans Required
- AAR Binding Post Wire Connections

DESCRIPTION

The Trilogy Products Switch Machine Power Supply is a 19” rack mount, high efficiency, switch-mode power supply that provides an output voltage range of 110V to 135V. Any output can be achieved within the specified range by the user utilizing a potentiometer on the display board. The unit operates from single phase 230VAC or 3PH 208VAC at full power in ambient temperatures of -30C to +70C without cooling fans. Over the temperature and input voltage range and with load transitions from 0% to 100%, the power supply will maintain the output voltage within +/-5% of nominal.

In switch machine applications, high power draw only lasts for the time it takes to move the switch. The peak power rating of the Trilogy Products Switch Machine Power Supply is defined as 30 seconds at 7200W. The intention is for one switch machine power supply to be able to provide 60A of peak current.

The SiPS-120V-7200W offers operational redundancy when paired with a second unit. This ensures that a failure of one supply will cause the entire load to be sourced from the redundant supply. In normal operation, each supply shares the load by the tuning of their respective potentiometers.

The SiPS-120V-7200W has several protection features to insure safe operation. These include input under-voltage lockout, over current limit with auto-restart and over-voltage protection. The power supply is designed to protect itself from short circuit or overload currents and it is designed to protect the load from internal supply failures. The unit will reduce its output voltage when a current of 120% of maximum or greater is required. If the current continues to rise, the voltage will eventually reach an under-voltage condition, causing the power supply to shutdown. If the fault condition clears, the power supply will automatically begin normal operation. If it does not clear, the power supply will remain in a shutdown state.



An alarm relay used for indication and remote monitoring is also provided. The alarm relay contact will be normally closed during standard operation. If a fault exists that prevents the power supply from operating within acceptable parameters, the alarm relay contact will open.

The power supply contains digital output meters, consisting of seven-segment displays, which indicate the supply voltage and current and the bus voltage. A green LED indicates proper supply operation. Three red LED’s representing under voltage (UV), over voltage (OV) and over current (OC) are available on the front panel. The “RESET” button on the front panel will reset the alarm relay and clear status LED’s once a fault has been fixed. The “LAMP TEST” button will flash all the displays and LED’s to provide verification of their operation. External connections for input AC and output DC are made using standard AAR binding posts. Alarm relay contact connections are made using standard barrier strip terminals.

ELECTRICAL SPECIFICATIONS

Input Voltage	230VAC or 3PH 208VAC
Output Voltage	110V-135V
Maximum Peak Output Power	7200W
Min Operating Temperature	-30°C
Max Operating Temperature	+70°C
Alarm Relay Contact Rating	5A
Output Voltage Regulation	+/-5%

MECHANICAL SPECIFICATIONS

Height	14in (8U)
Width	19in
Depth	19in

ORDERING INFORMATION

SiPS-120V-7200W

SiPS-120V-7200W
SWITCH MACHINE POWER SUPPLY

