

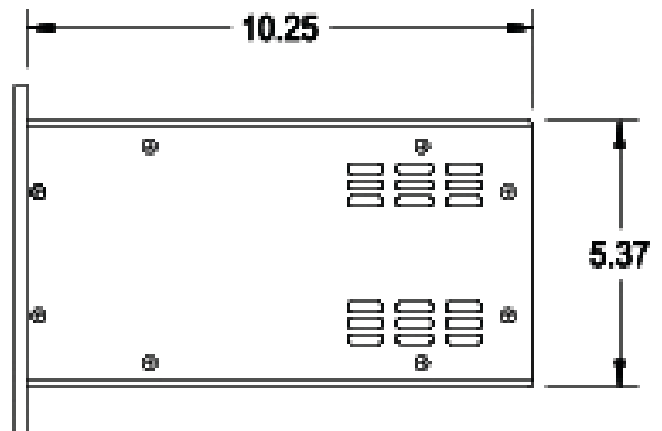
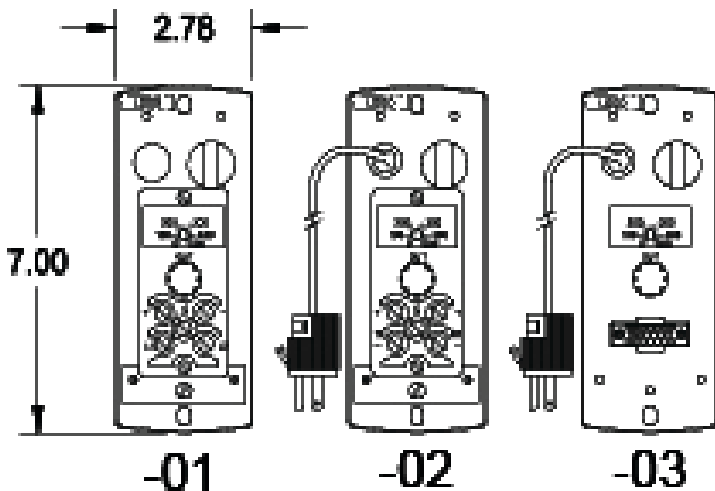
SPS500 Single Power Supply

The SPS500 Single Power Supply is a linear solid state module that replaces the obsolete Foxboro 610A power supply. The SPS500 converts input ac power to a semi-regulated output voltage for use as a current loop power source.

Standard SPS500 units have an internal 500 Ω pot to adjust total loop resistance. All versions of the SPS500 are available with an optional extended range internal resistance, using a 1,000 Ω pot in place of the 500 Ω pot.



SPS5000



“-01” = Terminal Block

“-02” = Terminal Block w/ Power Cord

“-03” = M 20 Connector w/ Power Cord

NUSI 500 Series

Single Power Supply

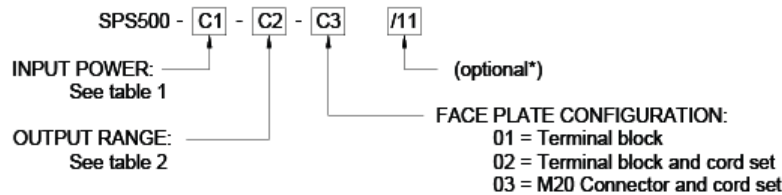
SPECIFICATIONS

Power Supply Voltage:	118 Vac \pm 10%
Voltage Effects:	Less than \pm 2.5% change at the output for a change of \pm 10% at the input
Power Consumption:	10.5 W (nominal), 18 VA (maximum) (at 100% rated output)
Output Ripple:	Less than 0.2% peak-to-peak across output load
Input-Output Isolation:	580 Vac and 250 Vdc common mode rejection (line to line and line to ground)
Surge Withstand:	No damage when the waveform of IEEE-472-1974 is applied to any port (" -02" input option only)
Electrical Qualification:	Plant protection, qualified to IEEE 323-1974/1983 and IEEE 344-1975
Ambient Temperature:	40 °F to 135 °F (5 °C to 57 °C) (normal operation)
Temperature Effects:	\pm 2.5 V maximum change for a 50 °F change in ambient temperature
Relative Humidity:	10% RH to 95% RH, non-condensing
Pressure:	Atmospheric
Radiation Limits:	10 ⁴ rad TID gamma

HOW TO ORDER

The model number and configuration typically should be specified as follows:

Examples: SPS500-02-01-03; SPS500-02-06-02/11 *



* The "/11" specifies the inclusion of the optional extended range internal resistance 1,000 Ω potentiometer in place of the standard 500 Ω potentiometer.

Table 1 — Input Range		Table 2 — Output Range	
Code	Input	Code	Output
01	118 Vac without surge suppression on the power inputs	01	82 (77.5 to 89.5) Vdc, 0 to 60 mA
02	118 Vac with surge suppression on the power inputs	02	36 (32 to 43) Vdc, 0 to 60 mA
		03	24 (21 to 30) Vdc, 0 to 25 mA
		04	43 (40 to 49) Vdc, 0 to 25 mA
		05	75 (70.5 to 82.5) Vdc, 0 to 60 mA
		06	30 (28 to 35) Vdc, 0 to 25 mA
		07	52 (49 to 57) Vdc, 0 to 60 mA
		09	50 (47 to 55) Vdc, 0 to 60 mA

CONTACT INFORMATION:

Curtiss-Wright Nuclear Division / I&C Products
 1350 Whitewater Drive, Idaho Falls, ID, 83402 T: (208) 497.3333