



1794in-125PS1

30 Watt 125 VDC Power Supply for the Allen-Bradley FLEX I/O™ System

FEATURES

- Utility Power Compatibility
- 4 Adapter Current Capability
- DIN Rail Mounting
- LED Power Status Indicator
- Input & Output Protection
- Direct Panel Mounting

Input
Input Voltage Range: 90 - 156 VDC
Input Power: 40 Watts Maximum
Transient Protection: Fuse and back to back zener diodes protect against catastrophic failure.
Reverse Polarity Protection: Unit will not turn on if reverse polarity is detected.
Isolation: 1500 VAC Conditions: Input to Output Input to Ground

General Description
The Intronics' 1794in-125PS1 is a 125 VDC power supply designed to completely and safely power Allen-Bradley FLEX I/O™ system. The unit is designed mechanically to directly integrate with the standard Allen-Bradley units. The input voltage is designed to meet voltages typically used in transmission and distribution substations and hydroelectric power generating facilities with battery supplied control power.

Output
Output Voltage: 22.8 – 25.5 VDC (normal)
Current Range Minimum: 100 ma
Current Range Maximum: 1300 ma
Output Surge Current: Sufficient to drive 4 output adaptors.
Overcurrent: Unit will shutdown at 110-130% of rated output current (Automatic restarting).
Overvoltage: Unit shuts down if output voltage exceeds 35 V. Recycle input power to restart.
Undervoltage: Provides status alarm.
Ripple: 35 mV max. p-p, ripple + noise: 50 mV.
Transient Load: Maintains specified operation for up to a 25% load change. Shutdown may result for transients greater than 25%.

General Specifications
Size: 3.4H x 2.7W x 2.7D (Refer to Figure 1)
Power supply and System Interface: Refer to Figure 2 for Connectivity Diagram.
Operating Temperature: 0 – 55 °C (32 - 131 F)
Wiring Screw Torque: 7 – 9 inch pounds
Wire Gauge: 12 AWG max with 3/16 diameter insulation .
LED Indicator: Input and output voltages are within specified limits when illuminated.
Safety Agency Approval: Pending (UL/CSA/CE, IEEE C37.90).

Indicator
On (green) Output Voltage >20.4 and <35 VDC
Off No power applied
Output Current <100 ma or >1300 ma
Output voltage >35 VDC and unit has shut down

Mechanical Specifications and Connection Diagrams

Terminal Connections & Description

Term #	Description
GR	Ground
L2/N	Input Common
L1	+125 VDC Input
COM	Output Common
24V	+ 24 VDC Output

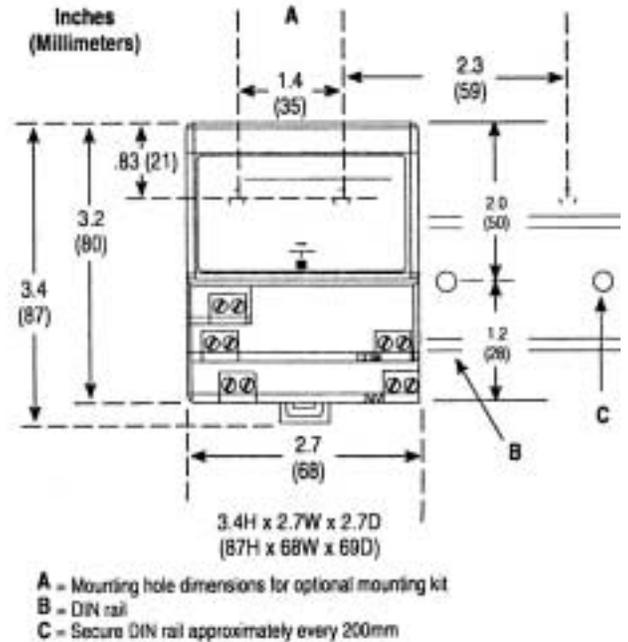
Environmental Specifications

Storage Temperature: -40°C to +85°C

Operating Temperature: 0° to +60°C

Humidity: 5 - 95% Non-condensing

Mechanical Configuration – Figure 1

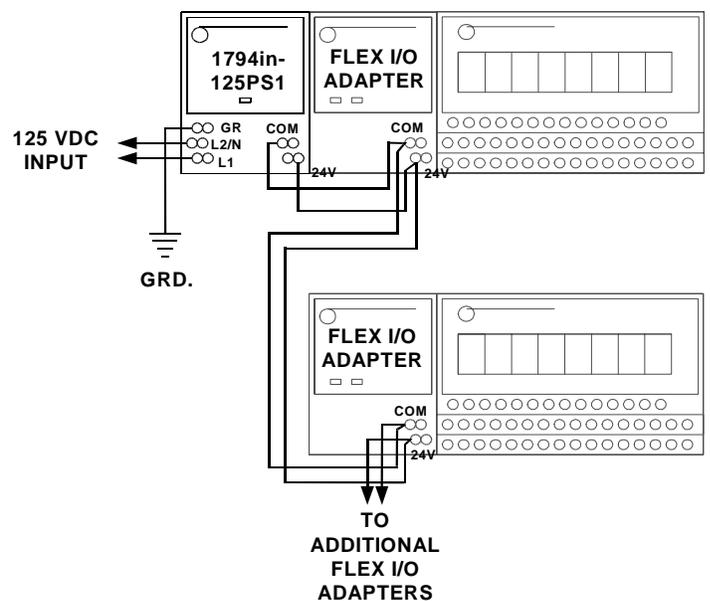


Ordering Information

Model Number	Input Range
1794in-125PS1	90 – 156 VDC

FOR FURTHER TECHNICAL OR ORDERING INFORMATION, PLEASE CONSULT YOUR NEAREST ALLEN-BRADLEY DISTRIBUTOR OR CALL INTRONICS DIRECTLY 1-800-367-0004

Connectivity Diagram – Figure 2



Note: Flex I/O™ is a trademark of Rockwell International Corporation.

Note: Specifications are subject to change without notice