



Signet 7300 Switching Power Supplies provide regulated output voltage in compact and lightweight plastic housings that can be DIN Rail or surface mounted. The series includes five different output capacities from 300 mA to 4.2 A (7.5 W to 100 W), all of which accept universal AC line voltage input and meet worldwide standards for performance and safety. These units meet the power requirements for a single system, multiple Signet instruments or other devices requiring 24 VDC operation.

Features

- Regulated 24 VDC output voltage
- Five output capacities: 300 mA, 600 mA, 1.3 A, 2.1 A and 4.2 A
- DIN rail or surface mount
- Universal AC input (85 to 264 VAC)
- DC compatible input (105 to 370 VDC)
- Fused input
- Auto resetting output overcurrent protection
- Unique spring-up, finger-safe terminals
- Short-circuit protection
- Output voltage adjust ($\pm 10\%$)
- Light-weight plastic housing



Compatibility

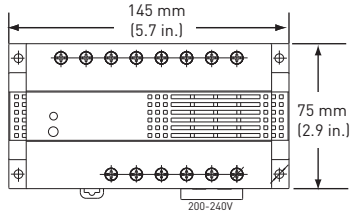
- Signet Instruments
- Electromagnetic Flow Sensors
- Suitable for Electric Actuated Valves, including Solenoid
- Suitable for powering passive outputs and relays

Specifications

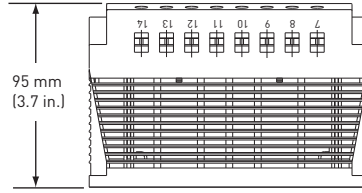
	7300-7524	7300-1524	7300-3024	7300-5024	7300-1024
Output Capacity	300 mA	600 mA	1.3 A	2.1 A	4.2 A
General					
Operation Indicator	LED				
Dielectric Strength	Between input and output terminals: 3,000 VAC, 1 minute Between input terminals and housing: 2,000 VAC, 1 minute Between output terminals and housing: 500 VAC, 1 minute				
Insulation Resistance	Between input and output terminals/input terminals and housing: 100 MΩ min. (500 VDC megger)				
Termination	Spring-up, finger safe terminals with captive M3.5 screws				
Materials	Housing: PPHOX (polyphenylene oxide)				
Mounting	DIN Rail or Surface Mount				
Dimensions (L/W/H)	75/45/70 mm 2.9/1.7/2.7 in.	75/45/95 mm 2.9/1.7/3.7 in.	75/90/95 mm 2.9/3.5/3.7 in.	75/90/95 mm 2.9/3.5/3.7 in.	75/145/95 mm 2.9/5.7/3.7 in.
Package Dimensions (L/W/H)	108/82/51 mm 4.25/3.25/2.0 in.	133/89/51 mm 5.25/3.5/2.0 in.	133/95/89 mm 5.25/3.75/3.5 in.	133/95/89 mm 5.25/3.75/3.5 in.	209/101/89 mm 8.25/4.0/3.5 in.
Input					
Input Voltage	100 to 240 VAC nominal (85 to 264 VAC), ±10% regulated, 50/60 Hz (47 to 63 Hz)				
Input Current (typical)	0.17 A @ 100 VAC	0.3 A @ 100 VAC	0.68 A @ 100 VAC	1.15 A @ 100 VAC	2.5 A @ 100 VAC
Internal Fuse Rating	2 A	2 A	3.15 A	3.15 A	4 A
Inrush Current	50 A maximum (at cold start at 200 VAC)				
Leakage Current (at no load)	0.75 mA maximum (60 Hz, measured in conformance with UL, CSA, VDE)				
Typical Efficiency	75% at 24 V	79% at 24 V	75% at 24 V	79% at 24 V	85% at 24 V
Overvoltage Protection	Outputs turn off at 105% (typical)				
Output					
Voltage & Current Ratings	24 V, 0.3 A	24 V, 0.6 A	24 V, 1.3 A	24 V, 2.1 A	24 V, 4.2 A
Voltage Adjustments	± 10% (V.ADJ screw on top)				
Output Holding Time	20 minutes maximum (at full rated input and output)				
Rise Time	200 minutes maximum (at full rated input and output)				
Fluctuation due to Input Voltage change	0.4% maximum				
Fluctuation due to Load Change	1.5% maximum				
Fluctuation due to Ambient Temperature Change	0.05% maximum				
Ripple Voltage	2% peak to peak maximum (including noise)				
Overload Protection	120% typical (Zener-limiting)		120% typical, auto reset		
Environmental					
Operating Temperature	-10 °C to 60 °C (14 °F to 140 °F) - see derating curves				
Storage Temperature	-30 °C to 85 °C (-22 °F to 185 °F)				
Operating Humidity	20% to 90% relative humidity (no condensation)				
Vibration Resistance	45m/s ² , 10 to 55 Hz, 2 hours on each of 3 axes				
Shock Resistance	294 m/s ² , 3 shocks in each of 6 directions				
Shipping Weight					
	0.40 lb (0.18 kg)	0.48 lb (0.22 kg)	0.92 lb (0.42 kg)	0.98 lb (0.44 kg)	1.54 lb (0.70 kg)
Standards and Approvals					
	CE, UL, CUL				

Dimensions

7300-1024



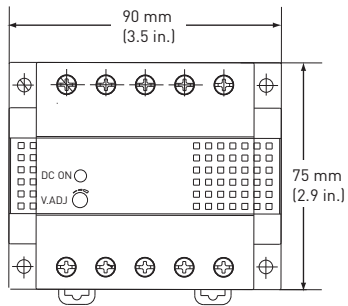
Front View



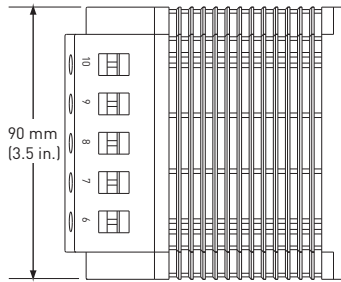
Top View

7300-3024

7300-5024

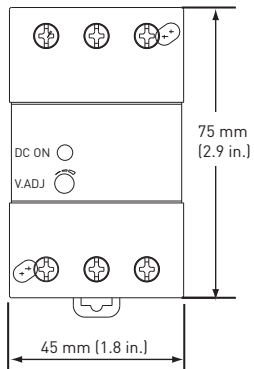


Front View

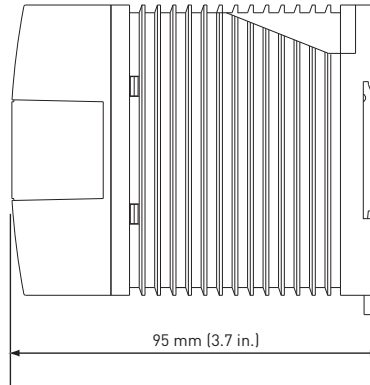


Top View

7300-1524

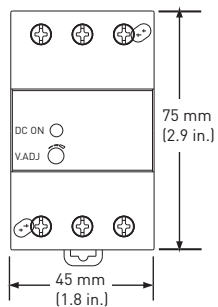


Front View

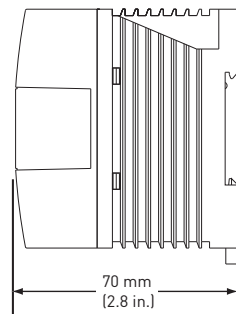


Top View

7300-7524



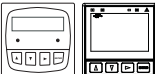


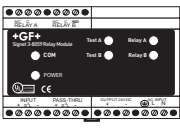
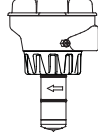
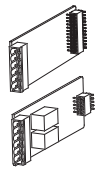

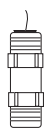
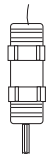
Front View



Top View

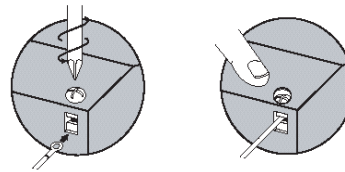
7300 Switching Power Supplies



Panel Mount	Field Mount - Pipe, Tank, Wall	Integral Mount	External Relay	Electromagnetic Sensor	Passive Relays and Outputs
Signet Instruments 8250 8450 8350 8900 9900	Signet Instruments 8250 8450 8350 8900 9900 with 8050 Universal Mount Kit	Signet Instruments 8250 8450 8350 8900 9900 with 8052 Integral Mount Kit	Signet 8059 External Relay Modules	Signet Sensors 2551 2552	Signet 8900 Multi-Parameter Controller
					
Signet sensor 	Signet sensor 	Signet sensor 			
All sold separately					

Installation

The innovative terminals on these Signet power supplies use a special spring-loaded screw. This makes installation as easy as pushing down and turning with a screwdriver. Installation time is cut in half since the screws do not need to be backed out to install wiring. The screws are held captive once installed and are 100% finger-safe. Screw terminals accept bare wire or ring or fork connectors.



- 1) Insert the wire connector into the slot on the side of the power supply.
- 2) Using a Phillips screwdriver, push down and turn the screw.

Ordering Information

Mfr. Part No.	Code	Power and Input Current Options
7300-7524	159 000 687	24 VDC Power Supply, 7.5 W, 300 mA
7300-1524	159 000 688	24 VDC Power Supply, 15 W, 600 mA
7300-3024	159 000 689	24 VDC Power Supply, 30 W, 1.3 A
7300-5024	159 000 690	24 VDC Power Supply, 50 W, 2.1 A
7300-1024	159 000 691	24 VDC Power Supply, 100 W, 4.2 A

Accessories and Replacement Parts

DIN rail in one meter (1000 mm) lengths, and DIN rail clips are available. The standard packaging of these power supplies are to be fastened to DIN rails, and accessory clips will keep the supplies from sliding if the rail itself is mounted vertically, for example. Contact the factory for more details.

Mfr. Part No.	Code	Description
6205-0002	159 000 858	1-meter length DIN Rail
6205-0003	159 000 859	End clip for DIN Rail