

Power supplies

Model number
PS459032A

2.1 amp 24 VDC power supply

This compact general purpose 24 VDC power supply has an innovative DIN rail mounting system that holds even at vibration or lateral pressure. Spring clamp terminals are clearly arranged and user-oriented.

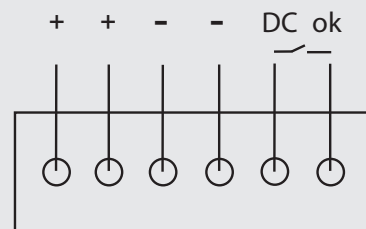
Features

- NEC Class 2 supply
- UL Class I, Division 2 approved
- LED status indication
- DC output ok (dry contact)
- Spring clamp terminals



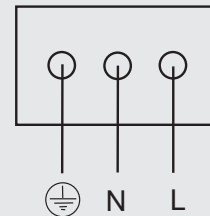
Specifications	
Output voltage	24-28 VDC (externally adjustable)
Output current	2.1 amps
Output ripple	50mVpp (max)
Input voltage	Universal 100 - 240VAC (50-60Hz)
Input current	1.0A / 0.6A (100VAC / 240VAC)
Efficiency	88.5% (100VAC)
Over voltage protection	40 VDC (max)
Overload protection	Yes
Over temperature protection	Yes
Holdup time	17ms
NEC power class	NEC class 2
Area approvals	Class I, Division 2; T4; groups A,B,C,D
Displays	Power ok, green LED
Operating temperature	-10°C to +70°C (+14°F to +140° F)
Storage temperature	-25°C to +85°C (-13°F to +185° F)
Housing	Non-metallic; DIN rail mounting
Dimensions (L, W, H)	91 mm, 45mm, 75mm
Ingress protection	IP20, field enclosure required
Approvals	UL508, UL1950, cULus, CE, Class 2
Weight	240g (0.5 pounds)

Schematic drawings



output voltage
24 VDC

input line voltage



Power supplies

Model number
PS459002A



2.8 amp AS-Interface power supply

This compact power supply is designed for use with AS-Interface systems where power and data share the same wires. The 2.8 amp power supply provides power to the AS-Interface bus for operation of masters and slaves for output devices. Integrated into the supply is a power conditioner which decouples data from the power supply enabling signal and power to be carried on the same pair of wires.

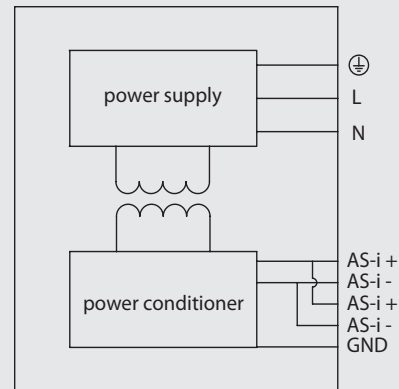
Features

- NEC Class 2
- Hazardous location approvals
- Current limited/short circuit protected
- Regulated to $\pm 3\%$
- Power decoupled from communication signal



Specifications	
Output voltage	30.55 VDC $\pm 3\%$
Output current	2.8 amps (85 watts)
Output inductance	100 mH $\pm 10\%$
Input voltage	Selectable 120 / 240 VAC (47-63 Hz)
Displays	Power on, green LED
Current limits	3.2 amp (min) 4.6 amp (max)
Operating temperature	-10° to +70°C (+14° to +158°F)
Storage temperature	-25° to +85°C (-13° to +185°F)
Housing	Al/Mg alloy, DIN rail mounting
Dimensions (L, W, H)	124mm, 49mm, 112mm
Ingress protection	IP20, IP54 field enclosure required
Weight	500g (1.1 pounds)
Approvals	NEC class 2 power supply

Schematic drawing



See www.stonel.com/approvals for details and certificates

Power supplies

Model number
PS459022A

3.4 amp 24 VDC power supply

The latest in DIN rail switch mode power supplies. This compact general purpose 24 VDC power supply has active filtering of input transients, extra low inrush current, and full output power up to +60°C.

Features

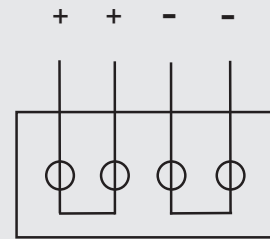
- UL Class I, Division 2 approved
- Spring clamp terminals
- LED status indications



Specifications	
Output voltage	24-28 VDC (externally adjustable)
Output current	3.4 amps
Output ripple	50mVpp (max)
Input voltage	Universal 100 - 240VAC (50-60Hz)
Input current	1.8A / 1.0A (100VAC / 240VAC)
Power factor	0.55 / 0.47 (100VAC / 240VAC)
Efficiency	88.7% / 90.0% (100VAC / 240VAC)
Over voltage protection	36 VDC (max)
Overload protection	Yes
Over temperature protection	Yes
Holdup time	28ms
Area approvals	Class I, Division 2; T4; groups A,B,C,D
Displays	Power ok, green LED Overload, red LED
Operating temperature	-25°C to +70°C (+14°F to +140° F)
Storage temperature	-40°C to +85°C (-40°F to +185° F)
Housing	Al/Mg alloy DIN rail mounting
Dimensions (L, W, H)	124mm, 32mm, 102mm
Ingress protection	IP20, field enclosure required
Approvals	UL508, UL1950, cULus, CE
Weight	420 (1.0 pounds)

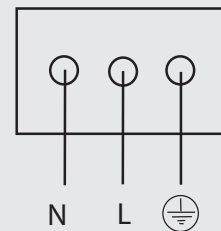


Schematic drawing



output voltage
24 VDC

input line voltage



Power supplies

Model number
PS459036A

3.8 amp power supply

This DeviceNet power supply is designed to provide power to the DeviceNet network and attached devices. This power supply meets all ODVA specifications for use with thick or thin cable. This supply carries the class 2 limited power source rating necessary for installations to meet National Electric Code (NEC) or Canadian Electric Code (CEC) without the need for secondary fusing.

Features

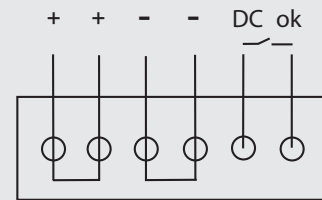
- NEC class 2 and UL class I, Division 2 approved
- Spring clamp terminals
- DC output ok (dry contact)

DeviceNet™



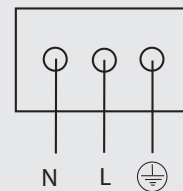
Specifications	
Output voltage	24.1 VDC ±0.2%
Output current	3.8 amps
Output ripple	50mVpp (max)
Input voltage	Universal 100 - 240VAC (50-60Hz)
Input current	1.1A / 0.5A (100VAC / 240VAC)
Power factor	0.99 / 0.91 (100VAC / 240VAC)
Efficiency	91.9% / 92.4% (100VAC / 240VAC)
Over voltage protection	29 VDC (max)
Over current protection	4.15 amp (max)
Turn-on time	100ms
Turn-on delay	200ms
Holdup time	44ms
NEC power class	NEC class 2
Area approvals	Class I, Division 2; T4; groups A,B,C,D
Displays	Power OK, green LED Overload, red LED
Operating temperature	-25°C to +70°C (+14°F to +140° F)
Storage temperature	-40°C to +85°C (-40°F to +185° F)
Housing	Al/Mg alloy DIN rail mounting
Dimensions (L, W, H)	124mm, 40mm, 117mm
Ingress protection	IP20, field enclosure required
Approvals	UL508, UL1950, cULus, CE, Class 2
Weight	620g (1.4 pounds)

Schematic drawing



output voltage
24 VDC

input line voltage



Power Supplies

StoneL Model 459006

Dual 4.0 Amp Power Supply

This AS-Interface Power Supply is designed to provide power to two (2) independent AS-Interface networks for operation of masters and slaves. It also provides data decoupling, which allows for data and power to be carried in the same wire. This power supply can supply 4.0 Amps to two (2) AS-Interface networks.

Features

- Current limited/short circuit protection for both AS-Interface networks
- Regulation to $\pm 3\%$
- Power decoupled from communication signal



Enclosure Option



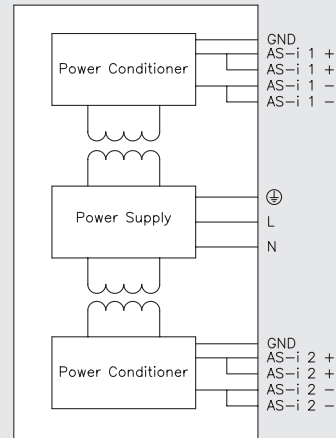
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Specifications

Output Voltage	• 30.55 VDC $\pm 3\%$
Output Current	• 2 channels x 4.0 Amps (122 Watts per channel)
Output Inductance	• 100mH $\pm 10\%$
Input Voltage	• Selectable 120/240VAC (47-63Hz)
Displays	• Power On, Green LED (1 per Channel)
Current Limits	• 4.2 Amp (min) 6.5 Amp (max)
Operating Temp.	• -25°C to +85°C (-13°F to +185°F)
Housing	• Al/Mg Alloy DIN rail mounting
Dimensions	• 120mm, 134mm, 112.5mm (L, W, H)
Ingress Protection	• IP20, field enclosure required
Weight	• 1200g (2.65 pounds)

Schematic Drawing



Power supplies

Model number
PS459034A

4.2 amp power supply

This compact general purpose 24 VDC power supply has an innovative DIN rail mounting system that holds even at vibration or lateral pressure. Spring clamp terminals are clearly arranged and user-oriented.

Features

- UL Class I, Division 2 approved
- LED status indication
- Spring clamp terminals

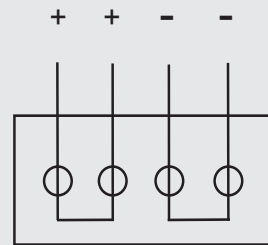


Specifications

Output voltage	24-28 VDC (externally adjustable)
Output current	4.2 amps
Output ripple	50mVpp (max)
Input voltage	100 -120/200-240VAC (selectable)
Input current	2.1A / 1.0A (100VAC / 240VAC)
Efficiency	90.0% (100VAC)
Over voltage protection	36 VDC (max)
Over current protection	Yes
Over temperature protection	Yes
Holdup time	20ms
Area approvals	Class I, Division 2; T4A; groups A,B,C,D
Displays	Power ok, green LED
Operating temperature	-10°C to +70°C (+32°F to +140° F)
Storage temperature	-25°C to +85°C (-13°F to +185° F)
Housing	Non-metallic; DIN rail mounting
Dimensions (L, W, H)	103mm, 73mm, 75mm
Ingress protection	IP20, field enclosure required
Approvals	UL508, UL1950, cULus, CE,
Weight	360g (0.8 pounds)

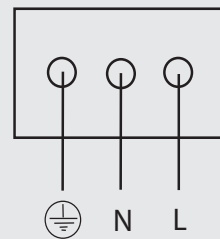


Schematic drawing



output voltage
24 VDC

input line voltage



Power supplies

Model number
PS459024A

5.0 amp 24 VDC power supply

The latest in DIN rail switch mode power supplies. This compact general purpose 24 VDC power supply has active filtering of input transients, extra low inrush current, and full output power up to +60°C.

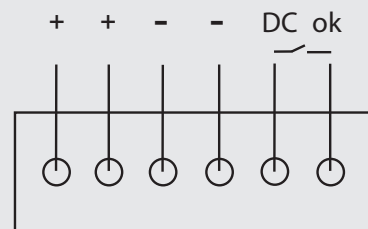
Features

- UL Class I, Division 2 approved
- LED status indications
- DC output ok (dry contact)
- Spring clamp terminals



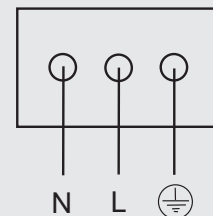
Specifications	
Output voltage	24-28 VDC (externally adjustable)
Output current	5.0 amps
Output ripple	50mVpp (max)
Input voltage	Universal 100 - 240VAC (50-60Hz)
Input current	1.4A / 0.65A (100VAC / 240VAC)
Power factor	0.99 / 0.91 (100VAC / 240VAC)
Efficiency	91.6% / 92.7% (100VAC / 240VAC)
Over voltage protection	36 VDC (max)
Overload protection	Yes
Over temperature protection	Yes
Holdup time	34ms
Area approvals	Class I, Division 2; T4; groups A,B,C,D
Displays	Power ok, green LED Overload, red LED
Operating temperature	-25°C to +70°C (+14°F to +140° F)
Storage temperature	-40°C to +85°C (-40°F to +185° F)
Housing	Al/Mg alloy DIN rail mounting
Dimensions (L, W, H)	124mm, 40mm, 117mm
Ingress protection	IP20, field enclosure required
Approvals	UL508, UL1950, cULus, CE
Weight	620g (1.4 pounds)

Schematic drawings



output voltage
24 VDC

input line voltage



Power supplies

Model number
PS459004A



8.0 amp AS-Interface power supply

This compact power supply is designed for use with AS-Interface systems where power and data share the same wires. The 8.0 amp power supply provides power to the AS-Interface bus for operation of masters and slaves for output devices. Integrated into the supply is a power conditioner which decouples data from the power supply enabling signal and power to be carried on the same pair of wires.

Features

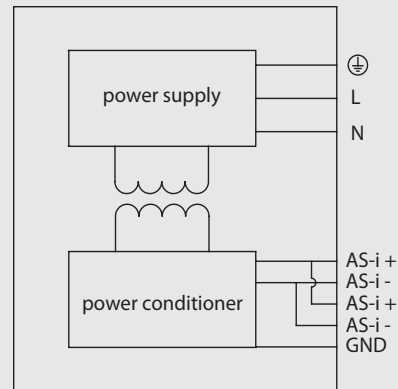
- Current limited/short circuit protected
- Regulated to $\pm 3\%$
- Power decoupled from communication signal



Specifications	
Output voltage	30.55 VDC $\pm 3\%$
Output current	8.0 amps (244 watts)
Output inductance	100 mH $\pm 10\%$
Input voltage	Selectable 120 / 240 VAC (47-63 Hz)
Displays	Power on, green LED
Current limits	8.4 amp (min)
Operating temperature	-10° to +70°C (-14° to +158°F)
Storage temperature	-25° to +85°C (-13° to +185°F)
Housing	Al/Mg alloy, DIN rail mounting
Dimensions (L, W, H)	124mm, 91mm, 112mm
Ingress protection	IP20, field enclosure required
Weight	890g (2.0 pounds)



Schematic drawing



Power supplies

Model number
PS459042A
PS459046A (ETL)



8.0 amp 30 VDC power supply

This compact power supply is designed for use with dual channel AS-Interface gateways with single power supply feature. The 8.0 amp power supply provides power to both AS-Interface channels.

Features

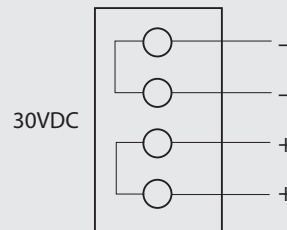
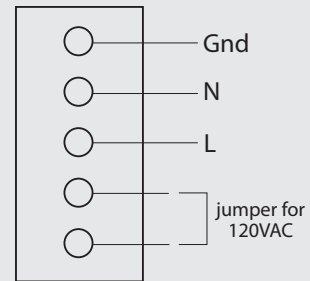
- Current limited/short circuit protected
- Regulated to $\pm 1\%$
- ETL approved for Class I Division 2 (PS459046A)



Specifications	
Output voltage	30.05 VDC $\pm 1\%$
Output current	8.0 amps
Input voltage	120 / 240 VAC (47-63 Hz)
Displays	Power on, green LED
Current limits	12.0 amp (max)
Operating temperature	0° to +60°C (+32° to +140°F)
Storage temperature	-25° to +85°C (-13° to +185°F)
Housing	Al/Mg alloy, DIN rail mounting
Dimensions (L, W, H)	148mm, 70mm, 154mm
Ingress protection	IP20, field enclosure required
Weight	1200g (2.65 pounds)
Approvals (PS459046A)	ETL approved Class I, Division 2, groups A, B, C, D



Schematic drawing



Power supplies

Model number
PS459038A

8.0 amp power supply

This power supply is designed to provide power to the DeviceNet network and attached devices. This power supply meets all ODVA specifications for use with thick or thin cable.

Features

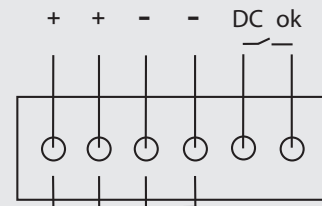
- NEC Class 1 and UL Class I, Division 2 approved
- Spring clamp terminals
- DC output ok (dry contact)



DeviceNet

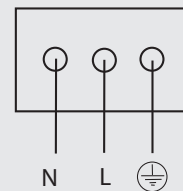
Specifications	
Output voltage	24.1 VDC ±0.2%
Output current	8.0 amps
Output ripple	50mVpp (max)
Input voltage	Universal 100 - 240VAC (50-60Hz)
Input current	2.3A - 1.0A (100VAC / 240VAC)
Power factor	0.99 / 0.92 (100VAC / 240VAC)
Efficiency	92.3% / 92.7% (100VAC / 240VAC)
Over voltage protection	29.5 VDC (max)
Over current protection	9.5 amp (max)
Turn-on time	85ms
Turn-on delay	600ms
Holdup time	32ms
NEC power class	NEC Class 1
Area approvals	Class I, Division 2; T4; groups A,B,C,D
Displays	Power OK, green LED Overload, red LED
Operating temperature	-25°C to +70°C (+14°F to +140°F)
Storage temperature	-40°C to +85°C (-40°F to +185°F)
Housing	Al/Mg alloy DIN rail mounting
Dimensions (L, W, H)	124mm, 60mm, 117mm
Ingress protection	IP20, field enclosure required
Approvals	UL508, UL1950, cULus, CE
Weight	900g (2.0 pounds)

Schematic drawing



output voltage
24 VDC

input line voltage



Power supplies

Model number
PS459028A

10.0 amp power supply

This general purpose 24 VDC power supply has an innovative DIN rail mounting system that holds even at vibration or lateral pressure. Large robust screw terminals are clearly arranged and user-oriented.

Features

- UL Class I, Division 2 approved
- LED status indication

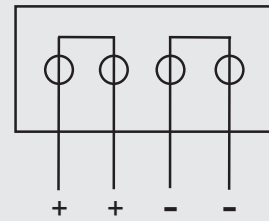


Specifications

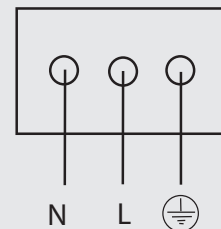
Output voltage	24-28 VDC (externally adjustable)
Output current	10.0 amps
Output ripple	30mVpp (max)
Input voltage	100 -120/200-240VAC (selectable)
Input current	6.0A / 2.8A (100VAC / 240VAC)
Efficiency	90.0% (100VAC)
Over voltage protection	35 VDC (max)
Over current protection	Yes
Over temperature protection	Yes
Turn-on time	200ms
Turn-on delay	100ms
Holdup time	25ms
Area approvals	Class I, Division 2; T3C; groups A,B,C,D
Displays	Power ok, green LED
Operating temperature	0°C to +70°C (+32°F to +140° F)
Storage temperature	-25°C to +85°C (-13°F to +185° F)
Housing	Al/Mg alloy DIN rail mounting
Dimensions (L, W, H)	102mm, 120mm, 124mm
Ingress protection	IP20, field enclosure required
Approvals	UL508, UL1950, cULus, CE,
Weight	980g (2.2 pounds)

Schematic drawing

output voltage
24 VDC



input line voltage



Power supplies

Model number
PS459026A

10.0 Amp 24 VDC power supply

The latest in DIN rail switch mode power supplies. This compact general purpose 24 VDC power supply has active filtering of input transients, extra low inrush current, and full output power up to +60°C.

Features

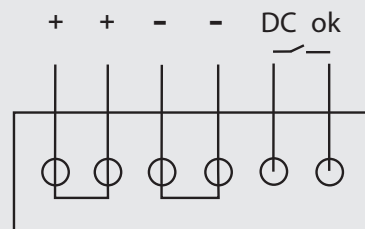
- UL Class I, Division 2 approved
- LED status indications
- DC output ok (dry contact)
- Spring clamp terminals



Specifications

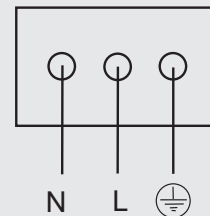
Output voltage	24-28 VDC (externally adjustable)
Output current	10.0 amps
Output ripple	50mVpp (max)
Input voltage	Universal 100 - 240VAC (50-60Hz)
Input current	2.8A / 1.2A (100VAC / 240VAC)
Power factor	0.99 / 0.92 (100VAC / 240VAC)
Efficiency	92.3% / 93.0% (100VAC / 240VAC)
Over voltage protection	39 VDC (max)
Overload protection	Yes
Over temperature protection	Yes
Holdup time	27ms
Area approvals	Class I, Division 2; T4; groups A,B,C,D
Displays	Power ok, green LED Overload, red LED
Operating temperature	-25°C to +70°C (+14°F to +140° F)
Storage temperature	-40°C to +85°C (-40°F to +185° F)
Housing	Al/Mg alloy DIN rail mounting
Dimensions (L, W, H)	124mm, 60mm, 117mm
Ingress protection	IP20, field enclosure required
Approvals	UL508, UL1950, cULus, CE
Weight	900g (2.0 pounds)

Schematic drawings



output voltage
24 VDC

input line voltage



Power supplies

Model number
PS459030A

20.0 amp power supply

This general purpose 24 VDC power supply has an innovative DIN rail mounting system that holds even at vibration or lateral pressure. Large robust screw terminals are clearly arranged and user-oriented.

Features

- LED status indication



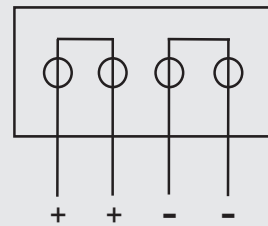
Specifications

Output voltage	24-28 VDC (externally adjustable)
Output current	20.0 amps
Output ripple	20mVpp (max)
Input voltage	Universal 100 - 240VAC (50-60Hz)
Input current	10.0A / 5.0A (100VAC / 240VAC)
Efficiency	91.0% (100VAC)
Over voltage protection	33 VDC (max)
Over current protection	Yes
Over temperature protection	Yes
Turn-on time	80ms
Turn-on delay	500ms
Holdup time	20ms
Displays	Power ok, green LED Overload, red LED
Operating temperature	0°C to +70°C (+32°F to +140° F)
Storage temperature	-25°C to +85°C (-13°F to +185° F)
Housing	Al/Mg alloy DIN rail mounting
Dimensions (L, W, H)	102mm, 220mm, 124mm
Ingress protection	IP20, field enclosure required
Approvals	UL508, UL1950, cULus, CE,
Weight	2.5kg (5.5 pounds)



Schematic drawing

output voltage
24 VDC



input line voltage

