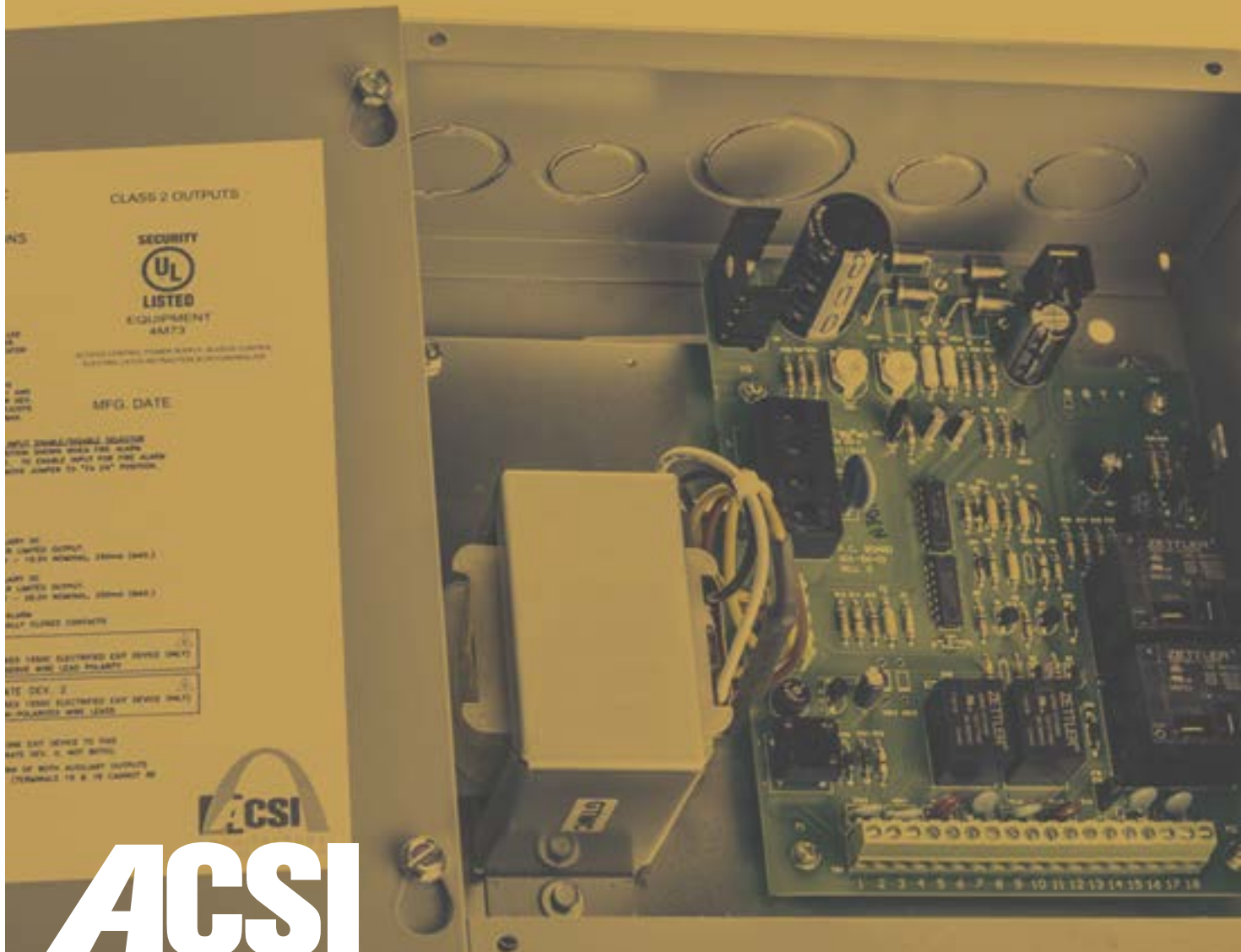


Series 1400

Power Supplies



2720 Clark Avenue
St. Louis, MO 63103
(314) 652-5588
(314) 652-2090 FAX

www.acsi-inc.com

1-800-753-5558

Series 1400 | Power Supplies

1406/1426 Power Supplies

ACSI 1406 and 1426 Power Supplies are designed to operate exit devices equipped with ACSI Series 1550 Electric Latch Retraction (required with 1550 Electric Solenoid Latch Retraction).

Features

- UL Listed and tested to UL 294 standard
- Class 2 rated outputs
- 2A load capacity
- Overload, over voltage, and short circuit protection
- 1406 Series only: select from independent control of single exit devices from separate inputs (one or two single doors) or sequential operation of two exit devices from a single input (pair of doors)
- Automatic door operator interface
- Fire alarm interface
- Field adjustable latch retraction time delay
- 24VDC, 12VDC* constant voltage outputs (250mA each)

*Not available in battery backup models

Day/Night Mode-ACSI 1426 Power Supply

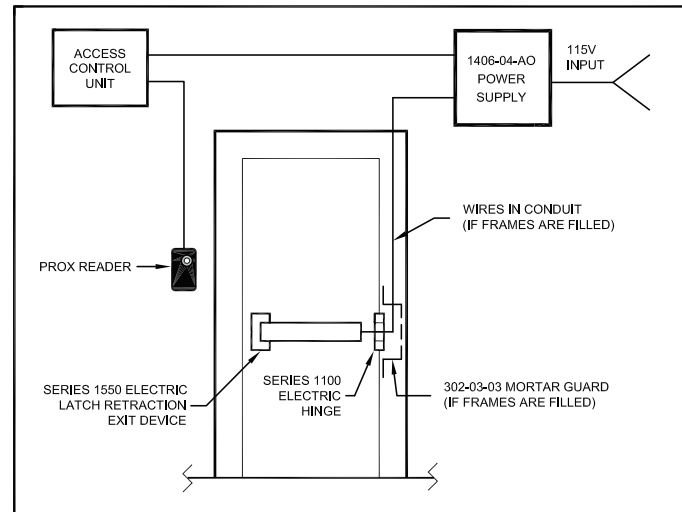
Provides a separate input for retracting one exit device or two exit devices sequentially without activating the automatic door operator. While the latches are held retracted, the auto-operator can be activated independently from a different input.

1406BB/1426BB Power Supplies with Battery Backup

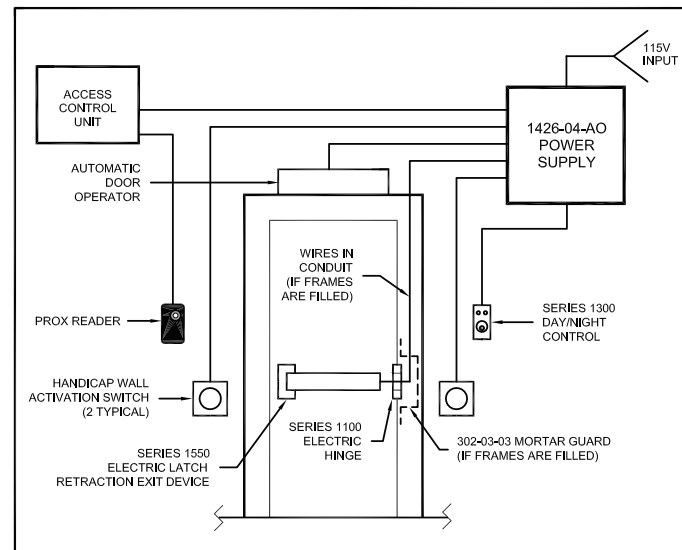
All the same features as above, but includes built-in battery backup power:

- 4 hours of backup power at full load during AC power failure
- Standby battery power with a supervised AC failure output and low battery output
- Supplied with (2) 12V, 7Ah lead acid batteries

ACSI 1406 Application



ACSI 1426 Application



Model	Description	List Price
1406	1550 electric latch retraction	\$690
1426	1550 electric latch retraction, day/night mode	\$700
1406BB	1406, battery backup	\$1,180
1426BB	1426, battery backup	\$1,200

1-800-753-5558



Series 1400 | Power Supplies

1420 Power Supply

ACSI 1420 Power Supply can be used in the following applications:

- Provide power/control to exit devices equipped with the ACSI Series 1550-MD Motor Drive Electric Latch Retraction. (See ACSI Series 1500 Electric Exit Device Catalog)
- Provide power/control to electrified door hardware in applications requiring automatic door operator interface.

Features

- UL Listed and tested to UL 294 standard
- Filtered/Regulated 24VDC
- Class 2 rated outputs
- 2A load capacity
- Overload, over voltage, and short circuit protection
- Automatically accepts 120VAC or 240VAC input

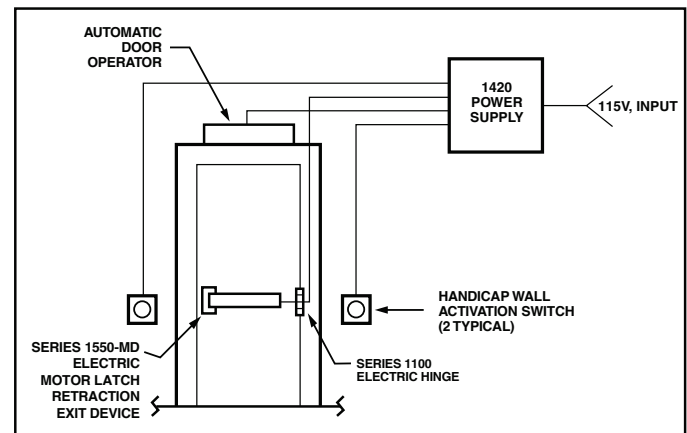
Each 1420 Includes

- Separate inputs for activation switch on entry and exit sides of the opening.
- Relay dry contact output to automatic door operator input.
- Built-in 0.5 second time delay between activation of the electrified door hardware and automatic door operator.
- Input for optional fire alarm or emergency release switch when urgent unlocking of door is required.
- Auxiliary 24VDC constant voltage output
- Separate 24VDC outputs for fail safe and fail secure electrified door hardware.

Options

DN – Day/Night mode provides a separate input for retracting one exit device or two exit devices simultaneously without activating the automatic door operator. While the latches are held retracted, the auto-operator can be activated independently from a different input.

ACSI Automated Door Opening System



1420

Model	Description	List Price
1420	24VDC, 2A automatic operator interface	\$460
1420-DN	1420, day/night mode	\$520

Series 1400 | Power Supplies

1440 Power Supply

ACSI 1440 Power Supply provides power for fail safe or fail secure locking devices.

Features

- UL Listed and tested to UL 294 standard
- Filtered/Regulated 24VDC
- Class 2 rated outputs
- 2A load capacity
- Overload, over voltage, and short circuit protection
- Surge suppression on fail safe and fail secure outputs
- Automatically accepts 120VAC or 240VAC input

Each 1440 Includes

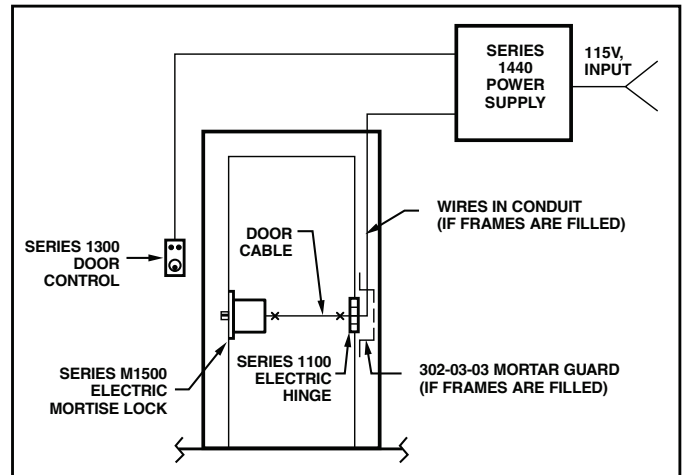
- Interface relay to isolate the locking device current from the control switch
- Auxiliary 24VDC constant voltage for powering standalone devices such as keypads, motion detectors, status indicators, etc.
- Field terminal block set at 45° for ease of installation

Options

TD – Adjustable time delay for 1 second to 60 minutes

Model	Description	List Price
1440	24VDC, 2A	\$420
1440-TD	1440, adjustable time delay	\$510

ACSI Locking System



1440

Series 1400 | Power Supplies

1451/1452 Power Supplies with Battery Backup

ACSI 1451 and 1452 Power Supplies can be used in the following applications:

- Provide power/control to exit devices equipped with the ACSI Series 1550-MD Motor Drive Electric Latch Retraction. (See ACSI Series 1500 Electric Exit Device Catalog)
- Provide power/control to electrified door hardware in applications requiring automatic door operator interface.
- Provide power for fail safe or fail secure locking devices.

Features

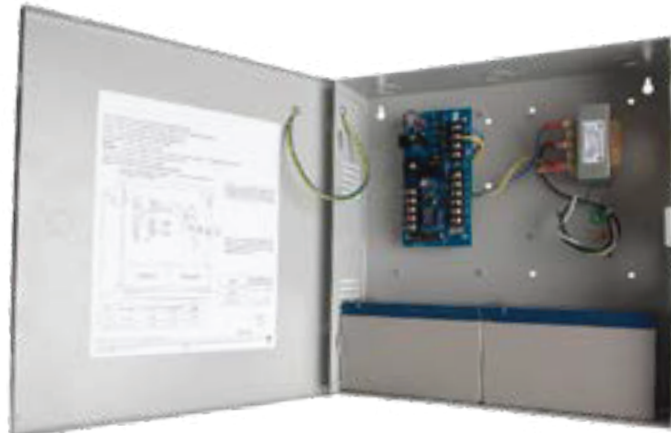
- 1451-1A load capacity
- 1452-1.75A load capacity
- UL Listed for US and Canada
- Filtered/Regulated 12VDC or 24VDC
- Class 2 rated outputs
- Fire alarm interface
- Overload and short circuit protection
- Automatic switchover to standby battery when AC fails
- Built-in battery charger
- Supplied with (2) 12V, 7Ah lead acid batteries



1451

Options

- TD – Adjustable time delay for 1 second to 60 minutes
- DN – Day/Night mode provides a separate input for retracting one exit device or two exit devices simultaneously without activating the automatic door operator. While the latches are held retracted, the auto operator can be activated independently from a different input.
- AO – Automatic Operator Interface



1452

Model	Description	List Price
1451	12VDC or 24VDC, 1A, battery backup	\$700
1451-TD	1451, adjustable time delay	\$720
1451-DN	1451, day/night mode	\$810
1451-AO	1451, automatic operator interface	\$780
1452	12VDC or 24VDC, 1.75A, battery backup	\$700
1452-TD	1452, adjustable time delay	\$730
1452-DN	1452, day/night mode	\$820
1452-AO	1452, automatic operator interface	\$790

Series 1400 | Power Supplies

1490 Delayed Egress Power Supply

ACSI 1490 Power Supply is designed to interface with ACSI electromagnetic locks in a delayed egress locking application.

Features

- UL Listed
- Compliance with NFPA code requirements
- Filtered/Unregulated 24VDC
- 2A load capacity
- Input for delayed egress activation
- Manual reset of delayed egress alarm
- Optional auto reset available
- Fire alarm interface
- Output for audible alarm
- Field adjustable delay for nuisance alarm, door release, request-to-exit and auto reset delay times
- One power supply can provide up to 4 delayed egress alarm zones

Description of System Operation

The delayed egress alarm becomes activated when the push bar of the Series 1500 modified exit device is depressed. A concealed AE (request-to-exit) switch initiates an irreversible cycle that begins with the Series 1300 audible alarm sounding for a predetermined time (field adjustable) while the Series 3700 electromagnetic lock remains energized locking the door.

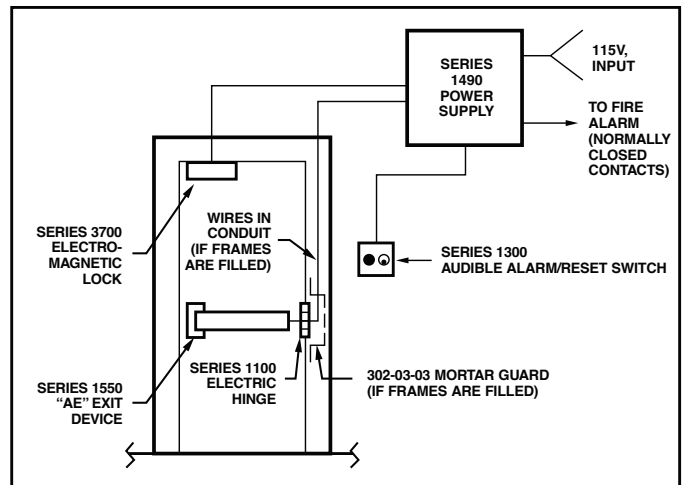
At the end of the timing cycle, the electromagnetic lock de-energizes and unlocks the door while the audible alarm continues sounding. The door will remain unlocked and in an alarm state until manually reset by the Series 1300 keyswitch. Resetting the system will lock the door by energizing the electromagnetic lock and will turn off the audible alarm.

Note: When using the system with a door position switch, the door must be fully closed prior to resetting the system. Resetting with the door open will energize the electromagnetic lock, but will not turn off the audible alarm. The audible alarm will also begin sounding if a forced entry occurs while the system is armed.

In the event of a fire alarm, the electromagnetic lock will immediately de-energize to unlock the door. Upon resetting the fire alarm, the system will return to normal standby operation.

Model	Description	List Price
1490-21	1 zone card	\$1,020
1490-22	2 zone cards	\$1,550
1490-23	3 zone cards	\$1,960
1490-24	4 zone cards	\$2,370

ACSI 1490 Application



1490-21

Series 1400 | Power Supplies

Series 1400 Power Supply Specifications

ACSI Series 1400 Power Supplies are designed and manufactured by ACSI engineers to operate a variety of electric locking devices that will meet the most sophisticated specifications.

ACSI system engineers are available to assist you in the selection of the power supply that best meets your application. All ACSI designed systems include riser diagrams and point-to-point wiring diagrams that allow ease of interface with life-safety and security systems.

Input

1406, 1426, 1490

120VAC, 0.75A, 60Hz

1406BB, 1426BB

120VAC, 1.08A, 60Hz

1410, 1420, 1440, 1400-6100

120VAC, 0.9A, 50/60Hz

240VAC, 0.6A, 50/60Hz

1451

115VAC, 0.6A, 50/60Hz

1452

115VAC, 0.6A, 50/60Hz

Output

1406, 1426

1550 Device Outputs: 40VDC, 1.5A (combined) Filtered/Unregulated

Auxiliary 24V Output: 24VDC, 0.25A Filtered/Regulated

Auxiliary 12V Output: 12VDC, 0.25A Filtered/Regulated

1406BB, 1426BB

1550 Device Outputs: 40VDC, 1.8A (combined) Filtered/Unregulated

Auxiliary 24V Output: 24VDC, 0.2A Filtered/Regulated

1490

24VDC, 2A Filtered/Unregulated

1420, 1440, 1400-6100

24VDC, 2A Filtered/Regulated

1410

24VDC, 2.2A Filtered/Regulated

1451

12VDC or 24VDC, 1A Filtered/Regulated

1452

12VDC or 24VDC, 1.75A Filtered/Regulated

Enclosure Dimensions/Type

1406, 1410, 1420, 1426, 1440, 1400-6100

10"x10"x4", NEMA Type 1 Screw Cover Junction Box

1406BB, 1426BB

12"x16"x4", NEMA Type 1 Screw Cover Junction Box

1490

12"x14"x4", Surface Mount Cabinet w/Hinged Door and Keyed Lock

1451, 1452

13.5"x13"x3.25", Surface Mount Cabinet w/Hinged Door and Cam Key Lock

Enclosure Weight

1410

9 lbs (with all four plug-in boards installed onto motherboard)

1406, 1426

12 lbs

1406BB, 1426BB

26 lbs (with batteries)

1420, 1440, 1400-6100

8 lbs

1490

15 lbs (with all zone cards installed)

1451, 1452

18 lbs (with batteries)

