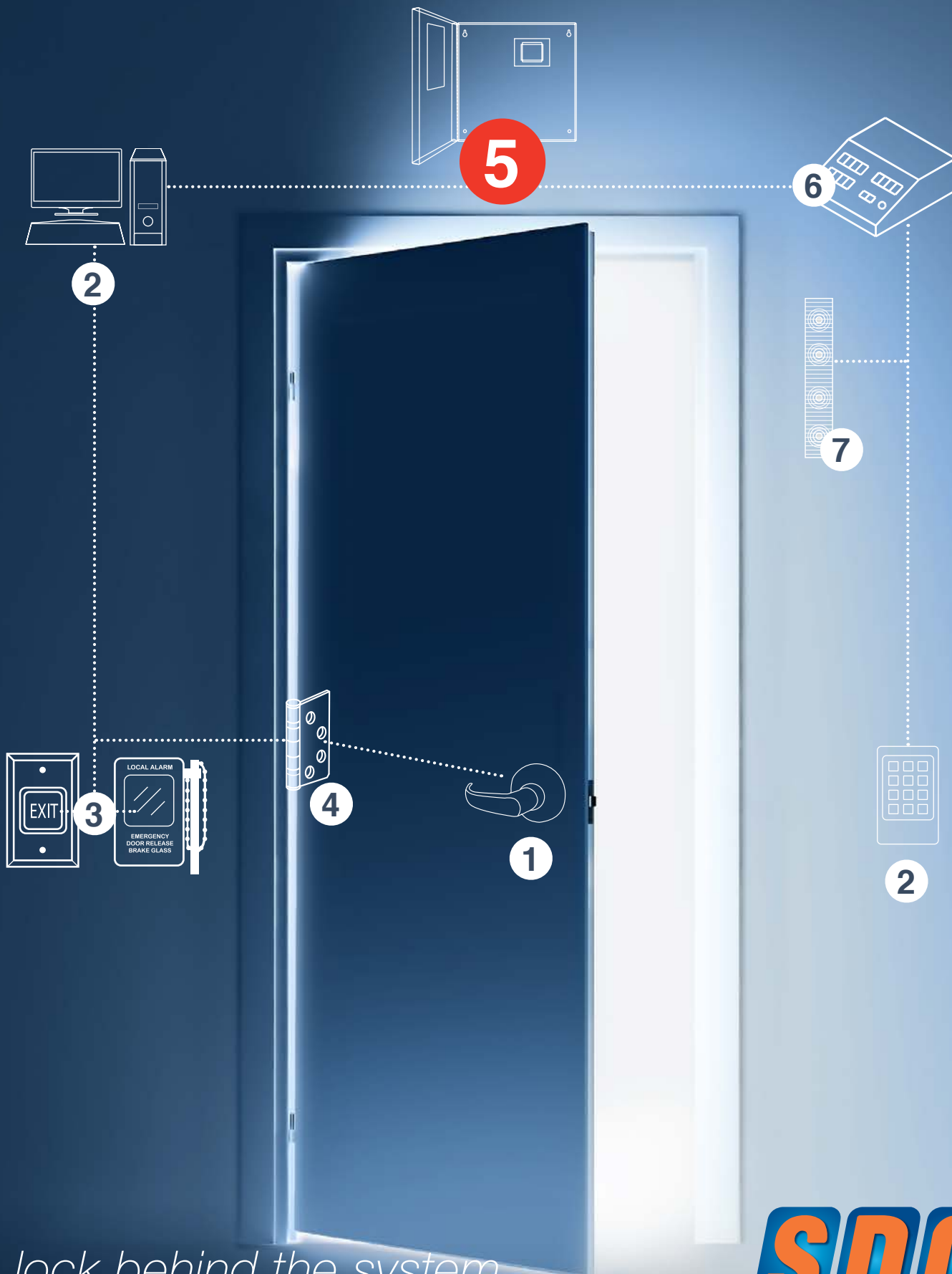


ACCESS & EGRESS SOLUTIONS

POWER SUPPLY & DOOR CONTROLS



The lock behind the system

SDCSecurity.com

800.413.8783

service@sdcssecurity.com

SDC
Security Door Controls

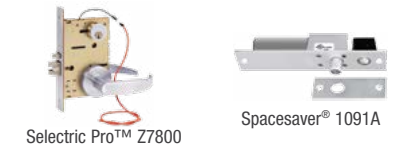
Complete Component Considerations

Standalone



1 Locking Device

- Electric Strike
- Delayed Egress Lock
- Electric Bolt Lock
- Electrified Lockset
- Exit Device
- Frame Actuator Lockset
- Magnetic Lock



2 Access Control

Standalone or Network

- Keyswitch
- Digital Keypad
- Card Reader



3 Egress Device

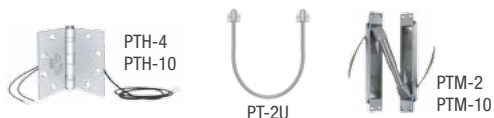
- Exit Switch
- PIR Egress Sensor
- Exit Sense Bar
- Emergency Door Release
- ADA Compliant Solutions



4 Power Transfer Devices

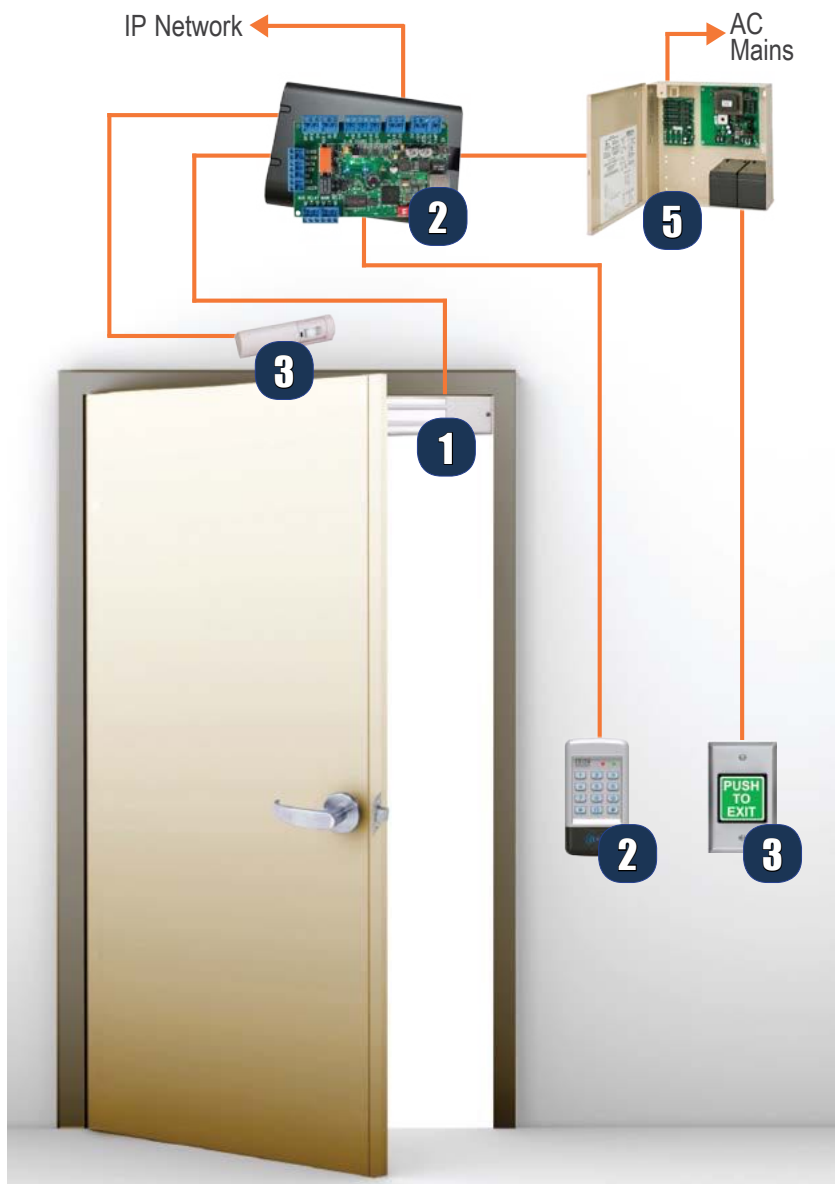
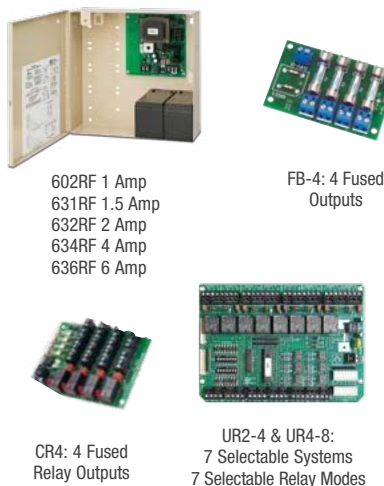
Required With Locksets & Exit Devices

- Electric Power Hinge
- Power Transfer Loop
- Concealed Power Transfer



5 Power Supply & Door Controller

- 12/24VDC, Class 2
- Fire release input
- System Status LED's
- Multiple Fused Outputs
- Multiple Relay Configurations
- Universal Programmable Controllers



6 Remote Controls



7 Annunciators



8 Accessories & Misc

- Magnetic Door Holder Release Device

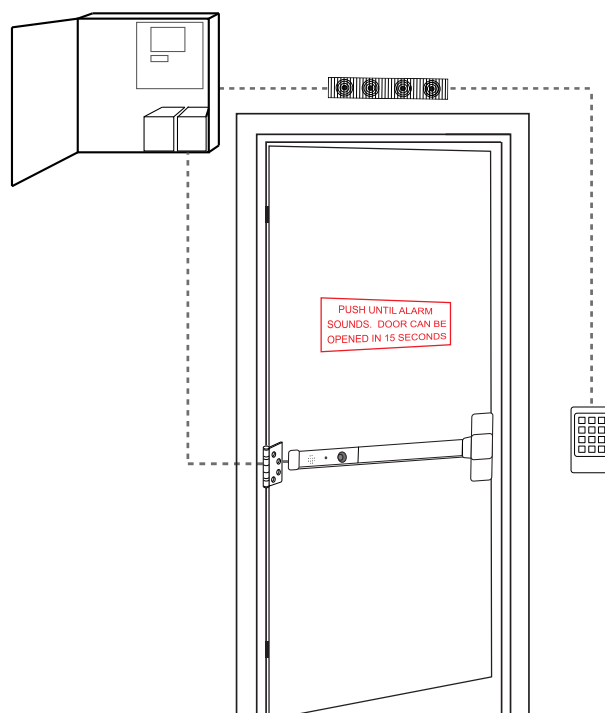




Power Supply & Door Controllers

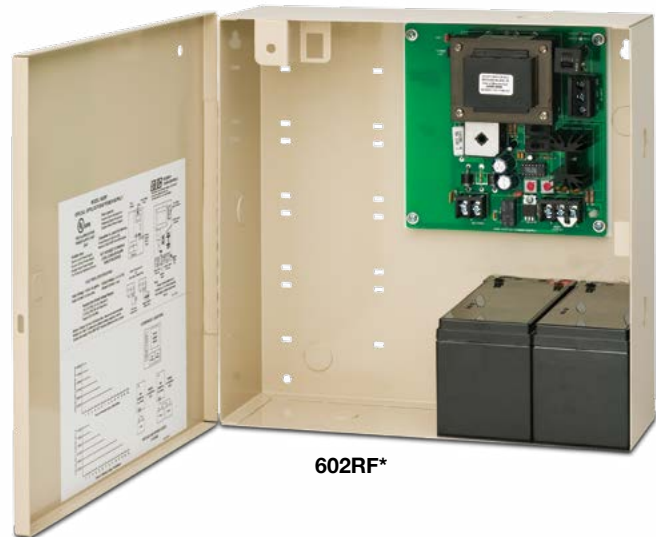
SDC Access Control Power Supplies have been developed specifically to support access controls and electric locking hardware with clean, consistent power. Combined with SDC's door controllers, there's a convenient and reliable way to wire, set dip switches, and install reliable power for virtually any door control application. The circuitry design is ideal for the inductive loads generated by access control hardware for high performance and longevity. The modular design is built around several different control modules to meet the most demanding component interface and control logic requirements.

UL Listed filtered and regulated DC power, control logic, component interface, alarm interface and battery back up modules meet the demanding requirements of requirements for single and multiple access controlled openings.



602RF Series 1 Amp Modular Access Control Power Supply

All SDC power supplies are equipped with a high performance transformer and highly reliable electronic components. Filtering and output voltage regulation provide protection and ensure the longevity of all system components. With the addition of SDC programmable controllers or relay modules, the user-friendly modular designs ensure versatility, interface capability and easy installation of electric locking devices, access controls and related safety equipment.



602RF*



FEATURES

- Fire/Life Safety**
 A fire alarm input provides simultaneous release of all fail safe locks and door holders in case of an emergency.
- Door Control Modules**
 SDC relay modules may be incorporated in the power supplies to meet virtually any application requirement, for single or multiple door control.
- Input AND Output Protection**
 The AC input voltage is circuit breaker protected and the secondary output is PTC protected.
- System Status**
 LED status indicators provide information regarding the AC input, DC output, and battery back up status. Outputs for remote annunciation are available.
- Low Battery Disconnect**
 Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.
- Battery Charging Output**
 A separate PTC protected charging output provides 13.5 or 27 volts to fully charge the batteries. The secondary output is always precisely maintained at 12 or 24VDC to protect locking devices and components from over voltage while the batteries are charging. The specified secondary output current is also maintained while batteries are charging. De-rating of the secondary output current is not required when charging batteries.
- Class 2 Outputs**
 To simplify installations that do not require conduit, a Class 2 output is standard and a 6-foot power cord is optional for the 115VAC input where permitted by code.
- Modular Design**
 Door control relay modules are available to meet virtually any application need. All wiring for lock hardware, access controls remote control and monitoring is terminated at one central location. Installation and troubleshooting is simplified. Modules may be factory installed or ordered separately for field installation as needed. All modules are individually fused for protection of multiple station systems.



602RFL



MODELS



602RFL Power Supply (less cabinet)



602RF Power Supply,
plus 12" W x 12" H x 3.75" D Cabinet

602RFA Power Supply,
plus 16" W x 14" H x 6.5" D Cabinet



* shown with optional batteries

SPECIFICATIONS

Electrical

Input	115VAC, 600 mA, 50/60 Hz
Output	Field Selectable 12/24VDC, 1 Amp
Battery Charger	13.5/27VDC, 250 mA
Weight	8.5 lbs

Mechanical

Cabinet	602RF: 12" x 12" x 4", 20 GA 602RFA: 16" x 14" x 6.5", 16 GA
----------------	---

SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure. See Table 2 to determine battery requirements for standby power.

PRODUCT SKU SAMPLE: **602RF 12VR UR1**

HOW TO ORDER

1| SPECIFY MODEL

- 602RFL** 1 Amp, Class 2 Output, Less Cabinet
- 602RF** 1 Amp, Class 2 Output 12" W Cabinet
- 602RFA** 1 Amp, Class 2 Output 16" W Cabinet

2| SPECIFY OPTIONS

- MR** Cover Mounted Manual Reset Switch for Fire/Emergency Release
- PS-1** System On-Off Push Switch inside Power Supply Enclosure
- PS-1A** System On-Off Push Switch on Enclosure Cover
- 14-2** 7 Day – Skip a Day Programmable Timer Automatically unlocks and locks all doors or specific doors on programmed days only.
- PC** 6 ft. Power Cord Recommended for 1 Amp, eliminating the need for AC conduit.
- KL** Key Lock Cover
- 220V/230V** 230VAC, 50/60Hz

3| SPECIFY CONTROL MODULES

- 12VR** 12VDC Regulated and Filtered Output Module
- FB-4** Four 2 Amp fuse protected outputs
- PSM** Power Supply Remote Monitoring Module
- UR1** Universal Door Controller
- CR4** Control Relay - 4 Independent DPDT Relays
- ACM-1** Access Control Module
see page 257 for more info

TABLE 1
CONTROL MODULE CAPACITY*

Power Supply:	602RF		602RFA	
Battery Qty.	0-2	3-4	0-2	3-4
	RB12V4		RB12V4	
FB4	2	2	2	2
12VR	2	1	2	1
PSM	1	1	1	1
UR-1	4	2	4	2
CR-4	2	1	2	1
ACM-1	2	1	2	1

* Total combined load of modules and access control hardware may not exceed 1 amp.

TABLE 2:
12VDC STANDBY POWER

5 Ah Battery Qty	1	2
Amp Hours	5Ah	10Ah
Load/Amps	Power Back-up Time in Hours	
0.25	20	40
0.50	8.5	20
0.75	5.5	12
1.00	3.8	8.5

ACCESSORIES

BACKUP BATTERIES

SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure.

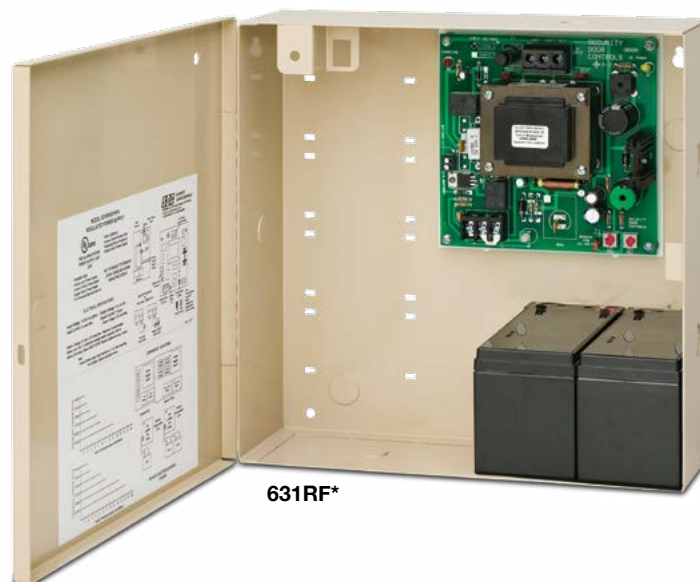


RB12V4 12V/5Ah Battery,

RB12V7 12V/8Ah Battery,

631RF Series 1.5 Amp Modular Access Control Power Supply

The SDC 631RF Power Supplies have been developed specifically to support electric locks and access controls. The high performance, heavy-duty circuitry is ideal for inductive loads and multi-door applications. The modular design is built around several different application control modules to meet your specific needs for virtually any electric lock system. SDC power supplies are designed to provide a well organized installation for individual or multi-door systems that may include locking devices, access controls, station controls and consoles for remote control, annunciation and fire/life safety system interfaces.



631RF*

FEATURES

- Filtered and Regulated**
 The output filtering stabilizes the DC output voltage and eliminates AC line noise. The solid state regulator maintains the selected output voltage at 12VDC or 24VDC regardless of the output load changes, including battery charging.
- Field Selectable 12 or 24VDC**
 The output is field selectable for 12 or 24VDC output.
- 250 mA Battery Charger Output**
 A separate PTC protected, battery charger output provides 13.5VDC or 27VDC.
- LED System Status Indicator**
 Amber - AC and DC voltages are OK
 Green - No DC output
 Red - No AC input, powered by batteries
- Class 2 Outputs**
 Where permitted by code, conduit is not required when using Class 2 outputs.
- Emergency Release Input**
 The Fire/Life Safety emergency release input is standard on all SDC power supplies.
- Large Heavy Gauge Enclosure**
 Model 631RFA is housed in a 16 gauge, 16" W x 14" H x 6.5" D cabinet large enough to accommodate several additional modules and four 8Amp hour batteries with plenty of room for wiring.
- Low Battery Disconnect**
 Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.
- Isolated Charging Circuit**
 While the charging output is 13.5VDC or 27VDC, the secondary output is unaffected and precisely maintained at the selected 12 or 24VDC. This ensures system components are powered by their specified voltage. The secondary output current is maintained at the full 1.5 Amp capacity and is not de-rated when charging batteries.



631RFA*



631RFL



MODELS



631RFL Power Supply (less Cabinet)



631RF Power Supply,
plus 12" W x 12" H x 4" D Cabinet



631RFA Power Supply,
plus 16" W x 14" H x 6.5" D Cabinet



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* shown with optional batteries

SPECIFICATIONS

Electrical

Input	115VAC @ 800 mA, 50/60 Hz Fused
Secondary Output	Selectable 12VDC or 24VDC @ 1.5 Amp, Poly Fuse Protected, Class 2
Battery Charger Output	250mA @ 13.5 or 27VDC, PTC Protected
Weight	8.8 lbs

Mechanical

631RF Cabinet	12" W x 12" H x 4"D, Steel 20 Ga.
631RFA Cabinet	16"W x 14"H x 6.5"D, Steel 16 Ga.

SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure. See Table 2 & 3 to determine battery requirements for standby power.

**TABLE 1:
CONTROL MODULE CAPACITY***

Power Supply:	631RF		631RFA	
Battery Qty.	0-2	3-4	0-2	3-4
	RB12V4		RB12V7	
FB4	4	2	4	4
12VR	1	1	1	1
PSM	1	1	1	1
UR-1	4	2	4	2
UR2-4	NA	NA	2	1
UR4-8	NA	NA	2	1
CR-4	2	1	4	2
ACM-1	2	1	4	2
PB-8, PB-16	1	1	1	1

* Total combined load of modules and access control hardware may not exceed 1.5 amp.

**TABLE 2:
12VDC STANDBY POWER**

5 Ah Battery Qty	1	2	4
Amp Hours	5Ah	10Ah	20Ah
Load/Amps	Power Back-up Time in Hours		
0.25	20	40	80
0.50	8.5	20	40
1.00	3.8	8.5	20
1.50	2.3	45.5	12

8 Ah Battery Qty	1	2	4
Amp Hours	8Ah	16Ah	32Ah
Load/Amps	Power Back-up Time in Hours		
0.25	36.7	85	175
0.50	15	36	85
1.00	6.5	14.4	36
1.50	4	9	21

**TABLE 3:
24VDC STANDBY POWER**

5 Ah Battery Qty	2	4
Amp Hours	5Ah	10Ah
Load/Amps	Power Back-up Time in Hrs	
0.25	20	40
0.50	8.5	20
1.00	3.8	8.5
1.50	2.3	4.5

8 Ah Battery Qty	2	4
Amp Hours	8Ah	16Ah
Load/Amps	Power Back-up Time in Hrs	
0.25	36.7	85
0.50	15	36
1.00	6.5	14.4
1.50	4	9

PRODUCT SKU SAMPLE: **631RF PS-1 UR1**

HOW TO ORDER

1| SPECIFY MODEL

- 631RFL** 1.5 Amp, Class 2 Output, Less Cabinet
- 631RF** 1.5 Amp, Class 2 Output 12" W Cabinet
- 631RFA** 1.5 Amp, Class 2 Output 16" W Cabinet

2| SPECIFY OPTIONS

- PS-1** System On-Off Push Switch inside Power Supply Enclosure
- PS-1A** System On-Off Push Switch on Enclosure Cover
- 14-2** 7 Day – Skip a Day Programmable Timer
- PC** 6 ft. Power Cord
- KL** Key Lock Cover
- 220V/230V** 230VAC, 50/60Hz

3| SPECIFY CONTROL MODULES

- 12VR** 12VDC Regulated and Filtered Output Module
- FB-4** Four 2 Amp fuse protected outputs
- PSM** Power Supply Remote Monitoring Module
- UR1** Universal Door Controllers
- UR2-4** Two Station Door Controllers
- UR4-8** Four Station Door Controllers
- CR4** Control Relay - 4 Independent DPDT Relays
- ACM-1** Access Control Module
- PB-8** 8 Amp Power Booster
- PB-16** 16 Amp Power Booster

see page 257 for more info on control modules

ACCESSORIES

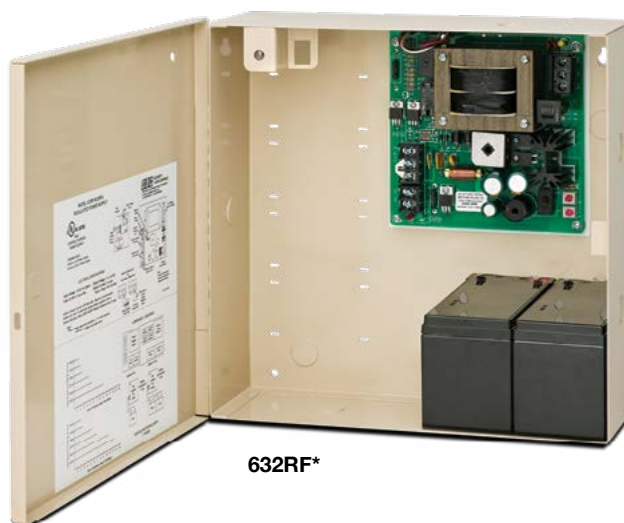
SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure. See Table 2 & 3 to determine battery requirements for standby power.

RB12V4 12V/5Ah Battery, 631RF Capacity, 4 Max

RB12V7 12V/8Ah Battery, 631RFA Capacity, 4 Max

632RF Series 2 Amp Modular Access Control Power Supply

The **SDC 632RF Power Supplies** have been developed specifically to support electric locks and access controls. The high performance, heavy-duty circuitry is ideal for inductive loads and its modular design provides a well organized installation for individual or multi-door systems that may include locking devices, access controls, station controls and consoles for remote control, annunciation and fire/life safety system interfaces.



FEATURES

- Filtered and Regulated**
 The output filtering stabilizes the DC output voltage and eliminates AC line noise. The solid state regulator maintains the selected output voltage at 12VDC or 24VDC regardless of the output load changes, including battery charging.
- Field Selectable 12 or 24VDC**
 The output is field selectable for 12 or 24VDC output.
- Battery Charger Output**
 A separate PTC protected, battery charger output provides 13.5VDC or 27VDC.
- LED System Status Indicator**
 Amber - AC and DC voltages are OK
 Green - No DC output
 Red - No AC input, powered by batteries
- Emergency Release Input (Standard)**
 A signal input from the fire life safety system turns off the secondary output releasing all failsafe locks. When not used for emergency release, this input may be used as main on-off control.
- Large Heavy Gauge Enclosure**
 Model 632RFA is housed in a 16 gauge, 16"W x 14"H x 6.5"D cabinet large enough to accommodate several additional modules and six 8 Amp hour batteries with plenty of room for wiring.
- Class 2 Output**
 Where permitted by code, conduit is not required for the Class 2 output.
- California Compliant Manual Reset of Emergency Release and AC Power Loss (Optional)**
 When this feature is required, should an AC power loss occur or the emergency release input is actuated, personnel must restore secondary output power manually at the power supply after the emergency release signal is reset and/or AC power is restored.
- Low Battery Disconnect (Standard)**
 Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.
- Isolated Charging Circuit (Standard)**
 While the charging output is 13.5VDC or 27VDC, the secondary output is unaffected and precisely maintained at the selected 12 or 24VDC. This ensures system components are powered by their specified voltage. The secondary output current is maintained at the full 2 Amp capacity and is not de-rated when charging batteries.



632RFL



MODELS

632RFL Power Supply (less cabinet)



632RF Power Supply, plus 12" W Cabinet

632RFA Power Supply, plus 16" W Cabinet

* shown with optional batteries

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SPECIFICATIONS

Electrical

Input	115VAC @ 800mA, 50/60 Hz, Fused. (220/230VAC 50/60 Hz optional)
Secondary Output	Selectable 12VDC or 24VDC @ 2 Amp, poly fuse protected, Class 2
Battery Charger Output	PTC protected 250mA @ 13.5 or 27VDC
Weight	8.8 lbs

Mechanical

632RF Cabinet	12" W x 12" H x 4"D, Steel 20 Ga.
632RFA Cabinet	16"W x 14"H x 6.5"D, Steel 16 Ga.

SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure. See Table 2 & 3 to determine battery requirements for standby power.

TABLE 1: CONTROL MODULE CAPACITY*

Power Supply:	632RF		632RFA	
Battery Qty.	0-2	3-6	0-2	3-4
	RB12V4		RB12V7	
FB4	4	2	4	4
12VR	4	2	4	4
PSM	1	1	1	1
UR-1	4	2	4	2
UR2-4	NA	NA	2	1
UR4-8	NA	NA	2	1
CR-4	2	1	4	2
ACM-1	2	1	4	2
PB-8, PB-16	2	2	2	2

* Total combined load of modules and access control hardware may not exceed 2 amp.

TABLE 2: 12VDC STANDBY POWER

5 Ah Battery Qty	1	2	4
Amp Hours	5Ah	10Ah	20Ah
Load/Amps	Power Back-up Time in Hours		
0.25	19.6	49	124
0.50	7.8	20	49
1.00	3.8	11.3	19.4
1.50	1.8	4.5	11.3

8 Ah Battery Qty	1	2	4	6
Amp Hours	8Ah	16Ah	32Ah	48Ah
Load/Amps	Power Back-up Time in Hours			
0.25	36.7	85	175	400
0.50	15	36	85	157
1.00	6.5	14.4	36	62
1.50	4	9	21	36

TABLE 3: 24VDC STANDBY POWER

5 Ah Battery Qty	2	4
Amp Hours	5Ah	10Ah
Load/Amps	Power Back-up Time in Hrs	
0.25	250	40
0.50	8.5	20
1.00	3.8	8.5
1.50	2.3	5.5

8 Ah Battery Qty	2	4	6
Amp Hours	8Ah	16Ah	24Ah
Load/Amps	Power Back-up Time in Hrs		
0.25	36.7	85	158
0.50	15	36	62.7
1.00	6.5	14.4	24.8
1.50	4	9	15



HOW TO ORDER

PRODUCT SKU SAMPLE: 632RFA PS-1A UR4-8

1| SPECIFY MODEL

- 632RFL** 2 Amp, Class 2 Output, Less Cabinet
- 632RF** 2 Amp, Class 2 Output, 12"W Cabinet
- 632RFA** 2 Amp, Class 2 Output, 16"W Cabinet

2| SPECIFY OPTIONS

- MR** Cover Mounted Manual Reset Switch for Fire/Emergency Release
- PS-1** System On-Off Push Switch inside Power Supply Enclosure
- PS-1A** System On-Off Push Switch on Enclosure Cover
- 14-2** 7 Day – Skip a Day Programmable Timer
- PC** 6 ft. Power Cord
- KL** Key Lock Cover
- 220V/230V** 230VAC, 50/60Hz

3| SPECIFY CONTROL MODULES

- 12VR** 12VDC Regulated and Filtered Output Module
- FB-4** Four 2 Amp fuse protected outputs
- PSM** Power Supply Remote Monitoring Module
- UR1** Universal Door Controllers
- UR2-4** Two Station Door Controllers
- UR4-8** Four Station Door Controllers
- CR4** Control Relay - 4 Independent DPDT Relays
- ACM-1** Access Control Module
- PB-8** 8 Amp Power Booster
- PB-16** 16 Amp Power Booster

see page 257 for more info on control modules



ACCESSORIES

- RB12V4** 12V/5Ah Battery, 632RF Capacity, 4 Max
- RB12V7** 12V/8Ah Battery, 632RFA Capacity, 6 Max



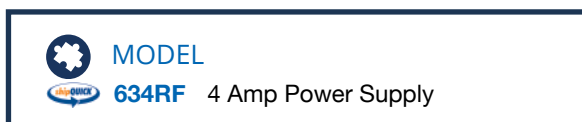
634RF 4 Amp Power Supply

The SDC 634RF Power Supplies have been developed specifically to support electric locks and access controls. The high performance, heavy-duty 4 Amp circuitry is ideal for inductive loads and multi-door applications. The modular design is built around several different application control modules to meet your specific needs for virtually any electric lock system. Documentation is provided to ensure a well organized installation for individual or multi-door systems that may include locking devices, access controls, station controls and consoles for remote control, annunciation and auxiliary emergency release interface. SDC 600 Series power supplies are manufactured according to Quality Assurance standards.



FEATURES

- Filtered and Regulated**
 The output filtering stabilizes the DC output voltage and eliminates AC line noise. The solid state regulator maintains the selected output voltage at 12VDC or 24VDC regardless of the output load changes, including battery charging.
- Field Selectable 12 or 24VDC**
 The output is field selectable for 12 or 24VDC output.
- Class 2 Output**
 The 634RF Power Supply may be configured to use one 4 Amp output or two 2 Amp, Class 2 outputs. Where permitted by code, conduit is not required for low voltage wiring when using Class 2 outputs. The total current draw from all outputs must not exceed 4 Amps.
- LED System Status Indicator**
 Amber - AC and DC voltages are OK
 Green - No DC output
 Red - No AC input, powered by batteries
- Large Heavy Gauge Enclosure**
 Model 634RF is housed in a 16 gauge, 16"W x 14"H x 6.5"D cabinet large enough to accommodate several additional modules and six 8 Amp hour batteries with plenty of room for wiring.
- Battery Charger Output**
 A separate PTC protected, battery charger output provides 13.5VDC or 27VDC.
- Emergency Release Input (Standard)**
 A signal input from the fire life safety system turns off the secondary output releasing all failsafe locks. When not used for emergency release, this input may be used as main on-off control.
- California Compliant Manual Reset of Emergency Release and AC Power Loss (Optional)**
 When this feature is required, should an AC power loss occur or the emergency release input is actuated, personnel must restore secondary output power manually at the power supply after the emergency release signal is reset and/or AC power is restored.
- Low Battery Disconnect (Standard)**
 Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.
- Isolated Charging Circuit (Standard)**
 While the charging output is 13.5VDC or 27VDC, the secondary output is unaffected and precisely maintained at the selected 12 or 24VDC. This ensures system components are powered by their specified voltage. The secondary output current is maintained at the full 4 Amp capacity and is not derated when charging batteries.



* shown with optional batteries





SPECIFICATIONS

Input	1 Amp @115VAC 50/60 Hz (230VAC 50/60Hz Optional, Not UL listed)
Input Protection	1 Amp, Manually Resettable Circuit Breaker
Secondary Output	Selectable One, 4 Amp @ 12VDC or 24VDC or Two, Class 2, 2 Amp @12VDC or 24VDC
Battery Protection	Auto Resetting Poly Fuse per Output

PRODUCT SKU SAMPLE: **634RF 14-2 UR4-8**



HOW TO ORDER

1| SPECIFY MODEL

634RF 4 Amp Power Supply
One 4 Amp Output or Two 2 Amp
Class 2 Outputs Standard

2| SPECIFY OPTIONS

MR Cover Mounted Manual Reset Switch
for Fire/Emergency Release

PS-1 System On-Off Push Switch inside
Power Supply Enclosure

PS-1A System On-Off Push Switch on
Enclosure Cover

14-2 7 Day – Skip a Day Programmable Timer

PC 6 ft. Power Cord

KL Key Lock Cover

220V/230V 230VAC, 50/60Hz

3| SPECIFY CONTROL MODULES

12VR 12VDC Regulated and Filtered Output Module

FB-4 Four 2 Amp fuse protected outputs

PSM Power Supply Remote Monitoring Module

UR1 Universal Door Controllers

UR2-4 Two Station Door Controllers

UR4-8 Four Station Door Controllers

CR4 Control Relay - 4 Independent DPDT Relays

ACM-1 Access Control Module

PB-8 8 Amp Power Booster

PB-16 16 Amp Power Booster



**634RF x 2-UR4-8
x 2 RB12V7**

see page 257 for more info on control modules

Battery Charger Output 500 mA @ 13.5 or 27VDC

Battery Charger Protection Auto Resetting Poly Fuse

Dimensions 16" W x 14" H x 6.5" D

Material 16 Gauge Steel

Weight 20.3 lbs

TABLE 1: CONTROL MODULE CAPACITY *

Power Supply:	634RF	
Battery Qty.	0-2	3-6
	RB12V7	
FB4	8	4
12VR	4	4
PSM	1	1
UR-1	4	4
UR2-4, UR4-8	2	1
CR-4	4	2
ACM-1	4	2
PB-8, PB-16	4	4

* Total combined load of modules and access control hardware may not exceed 4 amp.

TABLE 2: 12VDC STANDBY POWER

8 Ah Battery Qty	1	2	4	6
Amp Hours	8Ah	16Ah	32Ah	48Ah
Load/Amps	Power Back-up Time in Hours			
2	3	6.5	15	19
2.5	2.3	5	11.5	15
3	1.8	4	9	12.5
3.5	1.5	3.4	7.5	11
4	1.3	2.8	6.5	6.1

TABLE 3: 24VDC STANDBY POWER

8 Ah Battery Qty	2	4	6
Amp Hours	8Ah	16Ah	24Ah
Load/Amps	Power Back-up Time in Hours		
2	3	6.5	11
2.5	2.3	5	8.3
3	1.8	4	6.5
3.5	1.5	3.4	5.5
4	1.3	2.8	4.8

SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure. See Table 2 & 3 to determine battery requirements for standby power.



ACCESSORIES

RB12V7

12VDC, 8 Amp Hour Battery



636RF 6 Amp Power Supply

The SDC 636RF Power Supplies have been developed specifically to support electric locks and access controls. The high performance, heavy-duty 6 Amp circuitry is ideal for inductive loads and multi-door applications. The modular design is built around several different application control modules to meet your specific needs for virtually any electric lock system. Documentation is provided to ensure a well organized installation for individual or multi-door systems that may include locking devices, access controls, station controls and consoles for remote control, annunciation and auxiliary emergency release interface. SDC 600 Series power supplies are manufactured according to Quality Assurance standards.



FEATURES

- Filtered and Regulated**
 The output filtering stabilizes the DC output voltage and eliminates AC line noise. The solid state regulator maintains the selected output voltage at 12VDC or 24VDC regardless of the output load changes, including battery charging.
- Field Selectable 12 or 24VDC**
 The output is field selectable for 12 or 24VDC output.
- Class 2 Output**
 The 636RF Power Supply may be configured to use one 6 Amp output or three 2 Amp, Class 2 outputs. Where permitted by code, conduit is not required for low voltage wiring when using Class 2 outputs. The total current draw from all outputs must not exceed 6 Amps.
- Battery Charger Output**
 A separate PTC protected, battery charger output provides 13.5VDC or 27VDC.
- LED System Status Indicator**
 Amber - AC and DC Voltages are OK
 Green - No DC Output
 Red - No AC Input, Powered by Batteries
- Low Battery Disconnect (Standard)**
 Batteries are disconnected from the output circuit prior to deep discharge preventing battery destruction.
- Large Heavy Gauge Enclosure**
 Model 636RF is housed in a 16 gauge, 16"W x 14"H x 6.5"D cabinet large enough to accommodate several additional modules and six 8 Amp hour batteries with plenty of room for wiring.
- Emergency Release Input (Standard)**
 A signal input from the fire life safety system turns off the secondary output releasing all failsafe locks. When not used for emergency release, this input may be used as main on-off control.
- California Compliant Manual Reset of Emergency Release and AC Power Loss (Optional)**
 When this feature is required, should an AC power loss occur or the emergency release input is actuated, personnel must restore secondary output power manually at the power supply after the emergency release signal is reset and/or AC power is restored.
- Isolated Charging Circuit (Standard)**
 While the charging output is 13.5VDC or 27VDC, the secondary output is unaffected and precisely maintained at the selected 12 or 24VDC. This ensures system components are powered by their specified voltage. The secondary output current is maintained at the full 6 Amp capacity and is not derated when charging batteries.



MODEL



636RF 6 Amp Power Supply



* shown with optional batteries

SIA "Security Industry Finest" ISC Expo



SPECIFICATIONS

Input	1 Amp @115VAC 50/60 Hz (230VAC 50/60Hz Optional, Not UL listed)
Input Protection	1 Amp, Manually Resettable Circuit Breaker
Secondary Output	Selectable One, 6 Amp @ 12VDC or 24VDC or Three, Class 2, 2 Amp @12VDC or 24VDC
Output Protection	Auto Resetting Poly Fuse per Output
Battery Charger Output	500 mA @ 13.5 or 27VDC
Battery Charger Protection	Auto Resetting Poly Fuse
Dimensions	16" W x 14" H x 6.5" D
Material	16 Gauge Steel
Weight	25.2 lbs

PRODUCT SKU SAMPLE: **636RF 14-2 UR4-8**



HOW TO ORDER

1| SPECIFY MODEL

636RF 6 Amp Power Supply
One 6 Amp Output or Three 2 Amp Class 2 Outputs

2| SPECIFY OPTIONS

MR Cover Mounted Manual Reset Switch for Fire/Emergency Release

PS-1 System On-Off Push Switch inside Power Supply Enclosure

PS-1A System On-Off Push Switch on Enclosure Cover

14-2 7 Day – Skip a Day Programmable Timer

PC 6 ft. Power Cord

KL Key Lock Cover

220V/230V 230VAC, 50/60Hz

3| SPECIFY CONTROL MODULES

12VR 12VDC Regulated and Filtered Output Module

FB-4 Four 2 Amp fuse protected outputs

PSM Power Supply Remote Monitoring Module

UR1 Universal Door Controllers

UR2-4 Two Station Door Controllers

UR4-8 Four Station Door Controllers

CR4 Control Relay - 4 Independent DPDT Relays

ACM-1 Access Control Module

PB-8 8 Amp Power Booster

PB-16 16 Amp Power Booster



636RF x 2-UR4-8
x 2 RB12V7

see page 257 for more info on control modules

TABLE 1:
CONTROL MODULE CAPACITY *

Power Supply:	636RF	
Battery Qty.	0-2	3-6
	RB12V7	
FB4	8	4
12VR	4	4
PSM	1	1
UR-1	4	4
UR2-4, UR4-8	2	1
CR-4	4	2
ACM-1	4	2
PB-8, PB-16	4	4

* Total combined load of modules and access control hardware may not exceed 6 amp.

TABLE 2: 12VDC STANDBY POWER

8 Ah Battery Qty	1	2	4	6
Amp Hours	8Ah	16Ah	32Ah	48Ah
Load/Amps	Power Back-up Time in Hours			
2	3	6.5	15	24.7
2.5	2.3	5	11.5	19
3	1.8	4	9	15
3.5	1.5	2.4	7.5	12.5
4	1.3	2.8	6.5	11
5	.9	2.2	5	8
6	.8	1.7	4	6.6

TABLE 3: 24VDC STANDBY POWER

8 Ah Battery Qty	2	4	6
Amp Hours	8Ah	16Ah	24Ah
Load/Amps	Power Back-up Time in Hours		
2	3	6.5	11
2.5	2.3	5	8.3
3	1.8	4	6.5
3.5	1.5	3.4	5.5
4	1.3	2.8	4.8
5	.9	2.2	3.6
6	.8	1.7	2.9

SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure. See Table 2 & 3 to determine battery requirements for standby power.



ACCESSORIES

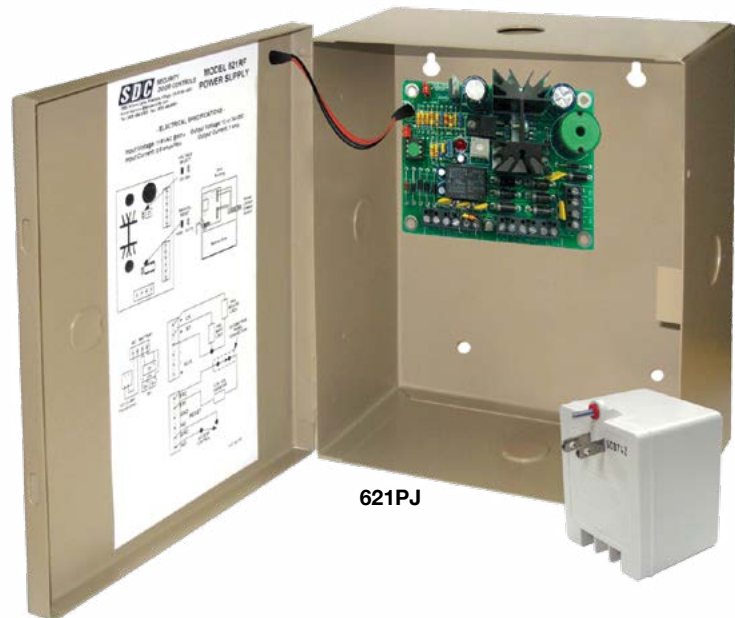
RB12V7

12VDC, 8 Amp Hour Battery



621 Series 1 Amp Modular Power Supply

The 621 Series access control power supplies are designed to support access controls and electric locking devices. Equipped with two power limited outputs, the modular design enables versatility for installations with or without battery back-up or fire command center interface for emergency lock release.



FEATURES

- 12VDC or 24VDC Field Selectable Output
- 1 Amp Maximum, Filtered and Regulated Output
 - 1 Power Limited Switched Output
 - 1 Power Limited Auxiliary Output
- Two Control Inputs
 - 1 Trigger Input, Normally Open (NO)
 - 1 Supervised Emergency Release Input (Latching with Reset or Non-Latching)
- When latching emergency release is selected and the switched output is deactivated by emergency release or power loss, power is restored by manual means only
- Short Circuit and Thermal Overload Protection
- Battery Charger Output
- Automatically Switched to Battery Back-Up when AC Fails
- Board Equipped with AC Input, DC Output and Battery Status LED Indicator
- Enclosure Equipped with AC Input, DC Output and Battery Status LED Indicator



MODELS

621PJ

Power Supply Module and Cabinet with Door Mounted LED System Status Indicator, UL listed 24 VAC, 40 VA Plug-In Transformer

621J

Power Supply Module, Cabinet with Door Mounted LED System Status Indicator

621P

Power Supply Module, Retrofit Mounting Hardware includes Flush Mount Standoffs or Velcro, UL listed 24 VAC, 40 VA Plug-In Transformer

621B

Power Supply Module Only, Retrofit Mounting Hardware includes Flush Mount Standoffs or Velcro

621P-UME

Power supply module, with UL Listed plug-in transformer and Universal Module Enclosure (UME).





SPECIFICATIONS

621P/621PJ Input	24VAC @ 40VA	Battery Charger	150mA @ 12VDC
621B Input	115VAC 60Hz, 0.6 Amp	Power Supply Board	3.95"W x 3"H x 1.625"D
Output	Filtered and electronically regulated 1 Amp @ 12/24VDC (field selectable)	Cabinet Enclosure	7.25"W x 8.375"W x 3.625"D
Weight	4.2 lbs	UME Box Dimensions	5.625"H x 7.6875"W x 3.375"D




ACCESSORIES

BACKUP BATTERIES

SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure.



RB12V4 12V/5Ah Battery,
 621PJ Accommodates Two

RB12V7 12V/8Ah Battery,
621PJ Accommodates One

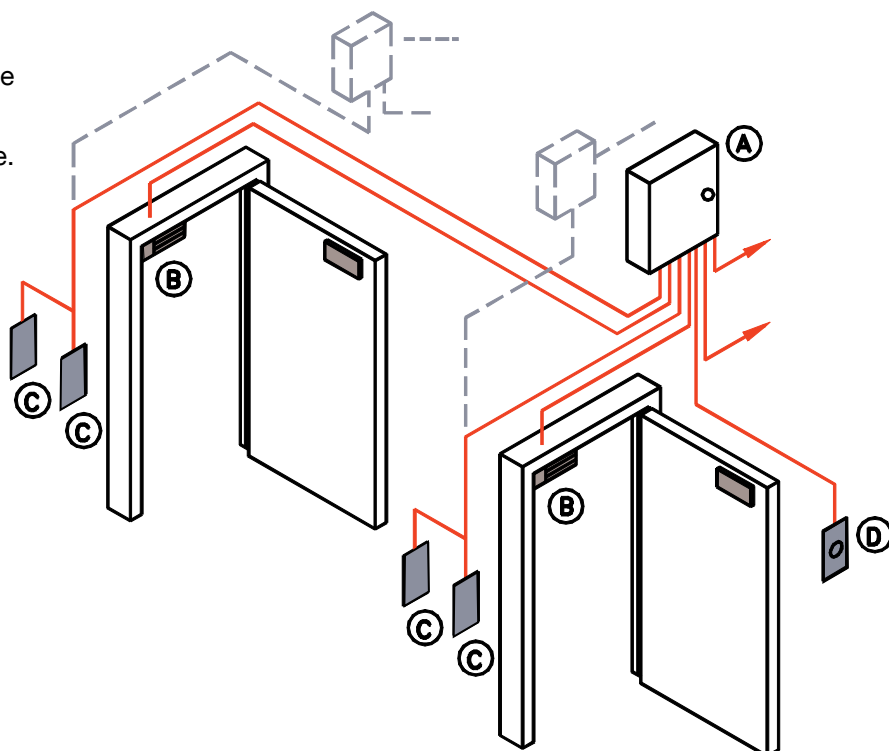






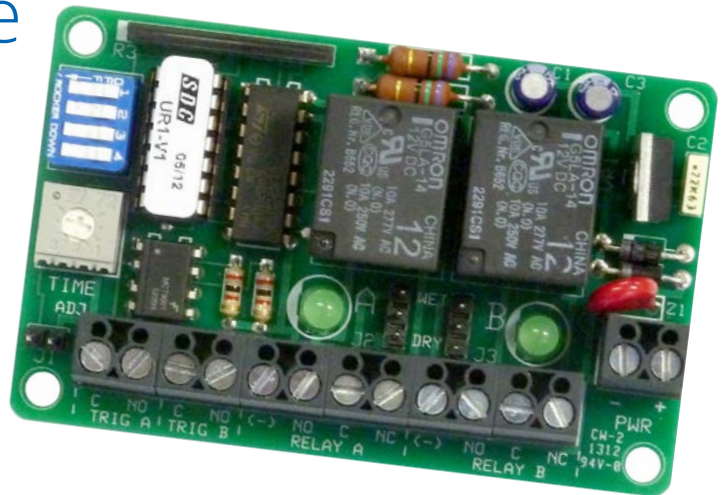
Door Control Relay Modules

Door Control Relay Modules ensure compatibility of access hardware components and simplify system installation and troubleshooting. Different modules may be specified for one power supply. The isolated relay design allows small gauge cable runs of 22 gauge wire up to 500 feet from the trigger device to the module.



UR-1 Universal Field Programmable Application Module

UR Series Universal Door Controllers provide a choice of individual dip switch selectable relay operating modes or system modes for lock control, monitoring, communicating door or lock system logic. Relay output modes may be individually configured as a Dry Contact or Voltage (Wet) Output. Relays may be configured to work independently or in tandem with adjacent relay.



FEATURES

- Use the Same Controller for Multiple Applications
- **Microprocessor Based System Logic** Reduces Need for Communicating Door and Lock Contacts and Standalone Relays
- **Centralized Wiring** for Locks, Access Controls, Monitoring Contacts and Peripheral Equipment Provide Easy Troubleshooting and Enable Uniformity for Multiple Installation Applications
- **Multiple Selectable Relay & System Logic Modes:**
 1. Conventional Relays
 2. 2 Time Delay Relays, adj. 1-60 sec
 3. 1 Time Delay Relays x Anti-Tailgate input
 4. 2 Independent Latching Relays (1 N.O. trigger per relay (pulse on, pulse off)
 5. Tandem Latching Relays 2-SPDT (DPDT) output (Input (A) latch ON, Input (B) latch OFF)
 6. 1 Time Delay Relay, 1 Latching Relay
 7. 1 Time Delay Relay, 1 Control Relay
 8. 2 Door Airlock/Cleanroom System
 9. Communicating Bathroom System: Shared by 2 hospital or Dorm rooms. Exiting unlocks both doors, ensuring access for both rooms
 10. Manual Door Sequencer : For 1 or 2 single or double door openings with high inrush* locks or exit devices (not to exceed Power Supply Rating up to 7A)
 11. Automatic Door Sequencer: For 1 single or 1 double door opening with locks or exit devices
- **Relay Modes:** Selectable Contact Configuration Permit Installer Configuration per Application Requirements
 1. SPDT outputs jumper selectable Wet and/or Dry
 2. Selectable Independent or Tandem (Simultaneous, DPDT) Activation
 3. Each Tandem SPDT output may be Wet and/or Dry

SPECIFICATIONS

Input Voltage	Automatic Voltage Sensing 12VDC @ 120mA, 24VDC @ 175mA
Inputs	Two Form "A" SPST, N.O. Inputs <ol style="list-style-type: none"> a) Two (2) N.O. Dry Inputs for Individual Relay b) Tandem: Either N.O. Dry Input Triggers Both Relays
Outputs	<ul style="list-style-type: none"> • 2 Form "C" SPDT Outputs (N.C. Failsafe, N.O. Failsecure) • 10 Amps (resistive), 7 Amp (inductive) @ 30VDC • Wet (voltage) and/or Dry Output • Wet Output Voltage is Same as Module Input Voltage • Two (2) LED Relay Active Indicators

Relay Mode Output Configuration

- a) Two (2) Wet (Power) and/or Dry Outputs
- b) Tandem: Simultaneously Activates both SPDT Outputs

Dimensions 3.2" W x 2" L x 1" H

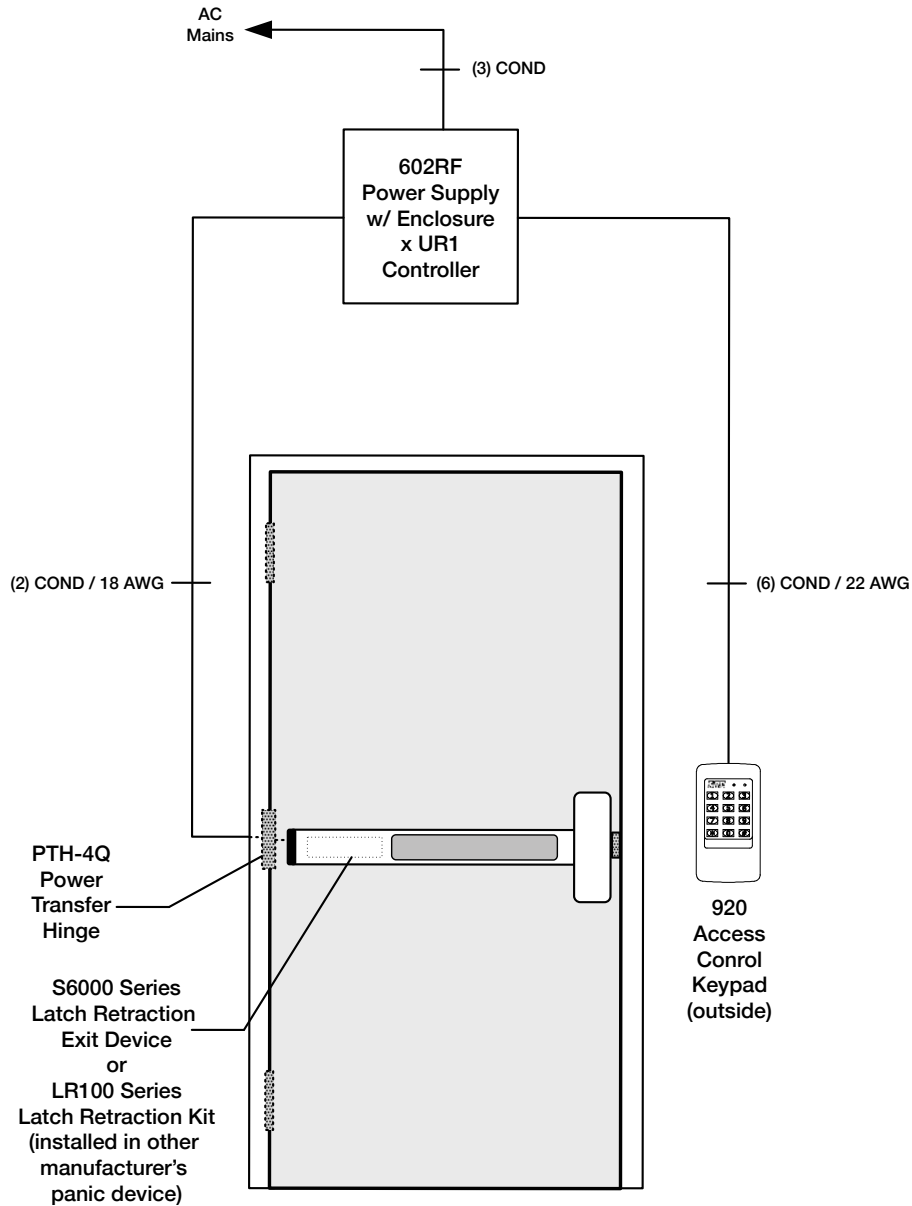
Weight 0.8 lbs



MODELS

UR-1 Universal Controller





920 Access Control Keypad
see page 155



602RF 1 Amp, 12/24 VDC Class 2 Output Power Supply
see page 239



PTH-4Q Power Transfer Hinge
see page 229



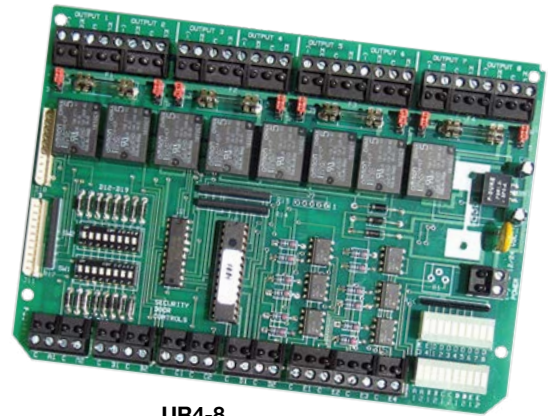
LR100 Latch Retraction Retrofit Kit
see page 113



S6000 Latch Retraction Exit Device
see page 111

UR2-4 and UR4-8 Universal Door Control Modules

Field Programmable Access Hardware Controller. 14 Field Selectable Station Modes & Systems. 7 Individually Selected Relay Output Modes: Control Relay, Timed Relay, or Latching Relay Output. Dual Modes Control Relay & Timer. Latching & Timed. Control Latching. Controlled Relay/Controlled Relay. 7 Selectable System Modes: 5 Mantrap and Interlock Modes. 2 Communicating Bathroom Modes.



UR4-8



FEATURES

- Use the same controller for all virtually multi-door applications.
- Centralized wiring for all locks, access controls, monitoring contacts and peripheral equipment.
- On board logic reduces need for communicating door and lock contacts and standalone relays.
- Reduced wiring, easy troubleshooting.

PROGRAMMABLE SYSTEM MODES

System selection provides appropriate mode of operation for each input and output

- **Airlock/Interlock Mode A:** All doors normally unlocked, opening any door causes all other doors to lock.
- **Mantrap Mode B:** All doors normally locked. When any door is unlocked all other doors are incapable of unlocking.
- **3 Mantrap Mode C:** Select doors locked or unlocked. When unlocked door is opened, locked doors are incapable of unlocking. When a locked door is unlocked, normally unlocked doors lock and all other locked doors are incapable of unlocking.
- **Shared Hospital/Dorm Bathroom A:** Doors equipped with magnetic locks.
- **Shared Hospital/Dorm Bathroom B:** Doors equipped with electrified locksets.

PROGRAMMABLE STATION MODES

Each output may be individually programmed with its own mode of operation

- Conventional Relay
- Latching Relay, on/off
- Latch multi-station zones on/off or all stations on/off
- Time Delay Relay 1-60 seconds
- Dual function Latching on/off, plus 1-60 second Timed output when on.



MODELS



UR2-4

Universal Controller with 2 Fused SPDT Outputs and 2 Non-fused SPDT Outputs



UR4-8

Universal Controller with 4 Fused SPDT Outputs and 4 Non-fused SPDT Outputs



SPECIFICATIONS

Input Voltage 12 or 24VDC +/- 10%

Input Current 130mA Max.

Relay Inputs

UR2-4:
4-SPST, Dry, Optically Isolated (Relay)
4-SPST, NO Dry, Optically Isolated (Auxiliary)

UR4-8:
8-SPST, Dry, Optically Isolated (Relay)
4-SPST, NO Dry, Optically Isolated (Auxiliary)

Weight

UR2-4: 0.8 lbs
UR4-8: 1.0 lbs

Outputs

Field Selectable Voltage Output or Dry Contact Outputs. Individually configured as a dry contact or 12 or 24VDC Voltage Output

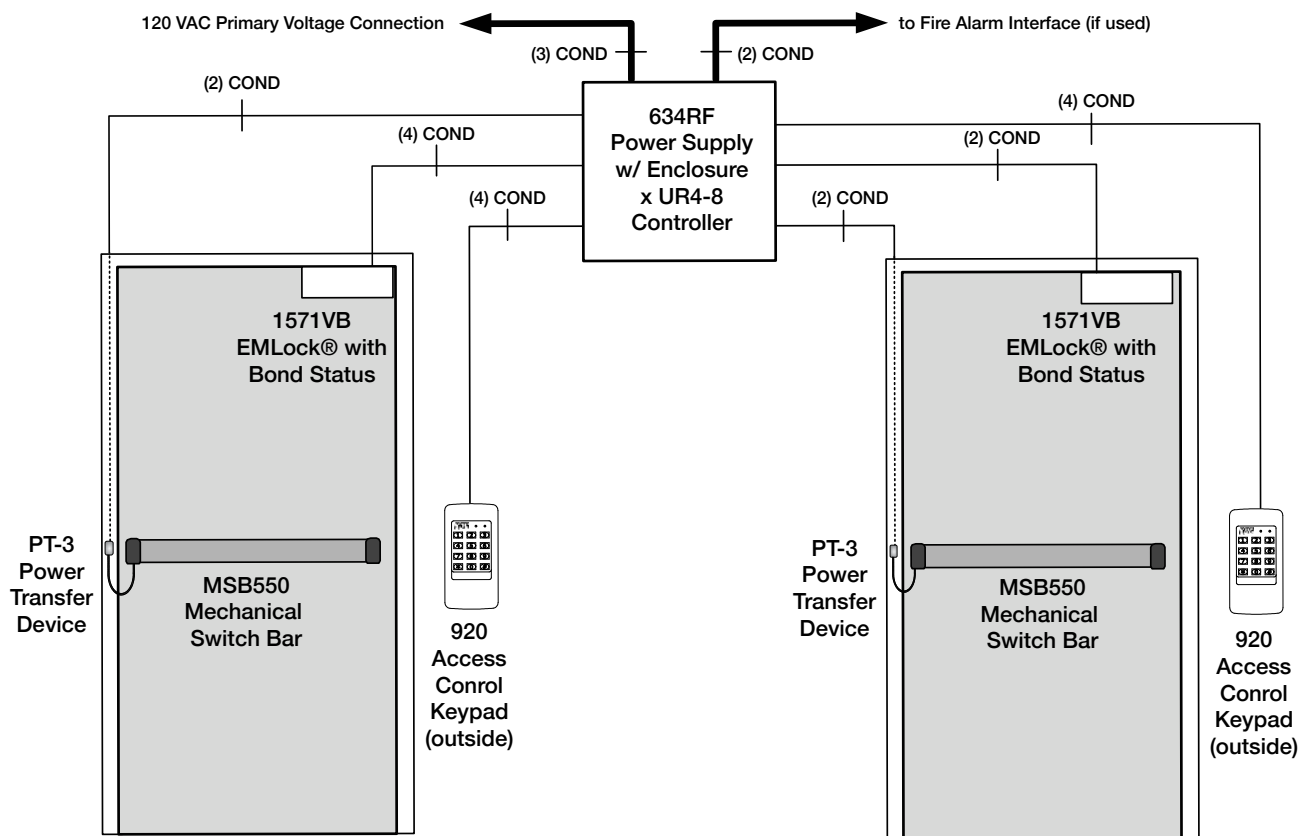
UR2-4:
2 fused SPDT relays, 7 Amps @ 30VDC
2 non-fused SPDT relays, 7 Amps @ 30VDC

UR4-8:
4 fused SPDT relays, 7 Amps @ 30VDC
4 non-fused SPDT relays, 7 Amps @ 30VDC

Dimensions

4.5" W x 5" H x 7/8" D UR2-4
7" W x 5" H x 7/8" D UR4-8





920 Access Control Keypad
see page 155



1571 EMLock® with Bond Status
see page 10



PT-3 Power Transfer Device
see page 235



MSB550 Mechanical Switch Bar
see page 173



634RF 4 Amp, 12/24 VDC
Class 2 Output
Power Supply
see page 245

Door Control Relays Modules

Door Control Relays Modules ensure compatibility of access hardware components and simplify system installation and troubleshooting. Different modules may be specified for one power supply. The isolated relay design allows small gauge cable runs of 22 gauge wire up to 500 feet from the trigger device to the module.

MULTIPLE FUSED OUTPUT

FB-4

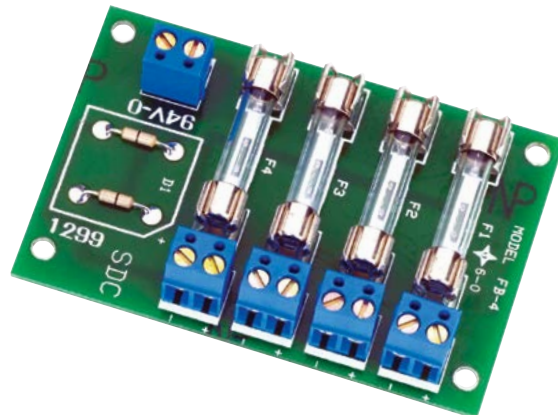
Four 2 Amp fuse protected outputs allow for precisely calculated circuit protection. Four modules provide 16 outputs.

- Distributes the primary DC output of any 600 series power supply into four, individually fused class 2 outputs
- Four separate outputs allow for termination multiple DC devices, providing ease of maintenance

SPECIFICATIONS

Outputs 4 Individually Fused @ 2 Amp

Weight 0.2 lbs



FOUR STATION RELAY MODULE

CR4

- Allows for independent control of up to four separate electrified locking devices
- Distributes the primary DC output of any 600 series power supply into four, individually controlled relay DPDT outputs
- Each output is individually fused, and selectable as wet or dry
- LED's provide relay activation status

SPECIFICATIONS

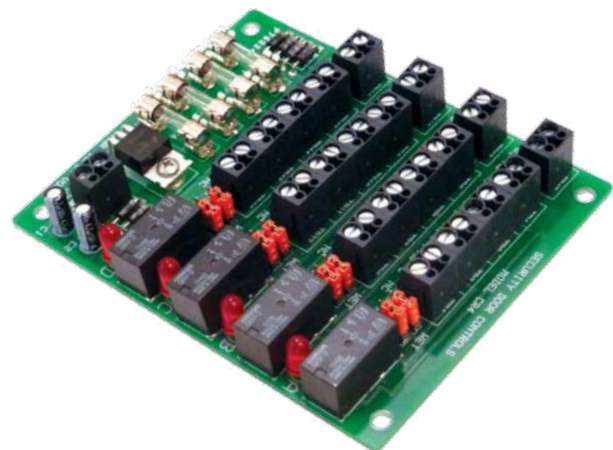
Voltage Input 120 mA @ 12/24VDC

Inputs & Outputs

- (4) Fused, 2A SPDT dry outputs or voltage outputs
- (4) 2A SPDT dry outputs or voltage outputs
- (4) N.O. dry trigger inputs

Dimensions 4.25" L x 3.375" W

Weight 0.4 lbs



Modules may be ordered with or without power supplies. Different function modules may be used in the same power supply or cabinet. Contacts: 2.5 Amps inductive, 5 Amps resistive @ 30 VDC unless specified otherwise.

ACCESS CONTROL MODULE

ACM-1

- Allows for control of a single electrified locking device from multiple activation devices (up to 6)
- LED provide relay activation status



SPECIFICATIONS

Voltage Input	45mA @ 12/24VDC
Inputs & Outputs	(1) SPDT voltage output (1) SPDT dry contact. 5A @30VDC resistive (6) trigger inputs (3-NC,3-NO) (1) LED status indicator
Dimensions	3.25" L x 2" W
Weight	0.25 lbs



POWER BOOSTER

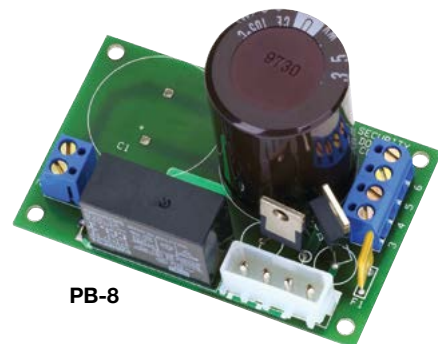
PB-16 16 Amp Power Booster

PB-8 8 Amp Power Booster

- Designed to control 1 or 2 high inrush current electrified locking devices
- Provides a total of 8A (PB-8) or 16A (PB-16) for 300ms, 1A continuous



PB-16



PB-8

SPECIFICATIONS

Inputs & Outputs	24VDC input (1) N.O. Dry trigger Input (1) Fused SPDT voltage output 1 Amp Continuous, 8 Amp or 16 Amp Surge
Dimensions	3.25" W x 2" H
Weight	0.3 lbs

Modules may be ordered with or without power supplies. Different function modules may be used in the same power supply or cabinet. Contacts: 2.5 Amps inductive, 5 Amps resistive @ 30 VDC unless specified otherwise.

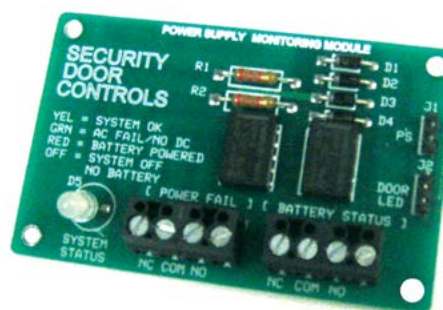


Door Control Monitoring and Sequencing

POWER SUPPLY REMOTE MONITORING MODULE

PSM

The PSM Power Supply Monitoring Module provides 2-SPDT, 1 Amp contacts to remotely monitor power supply and battery status.



FEATURES

- Monitors Power Supply Input and Battery Backup
- On/Off Status
- Remote Annunciation Includes:
System OK | AC Fail – No DC Output |
Battery Powered | System Off – No Battery



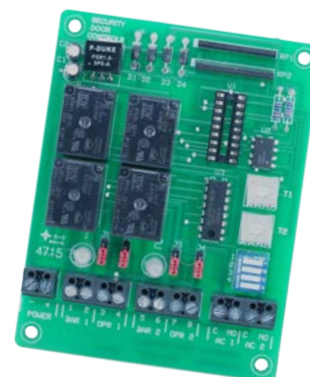
SPECIFICATIONS

Outputs	2-SPDT Relay Outputs
Relay Rating	1 Amp @ 12/24VDC
Dimensions	3.25" W x 2" H
Weight	0.2 lbs



EXIT DEVICE SEQUENCER EMC

The EMC Dual Channel Sequencer Module may be used with the S6000FE, S6000PE, or LR100 series Electric Latch Retraction (ELR) device to provide a delayed signal to operate an automatic door operator or when powering a pair of ELR devices from a single SDC 600 series power supply.



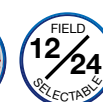
FEATURES

- The two sequencer channels may be operated as two independent doors or in tandem mode for pairs of doors.
- Each sequencer channel provides an output to power the ELR device and a "delayed" dry auxiliary output for activation of an automatic door operator. All outputs are field selectable as Normally Open or Normally Closed.
- When the EMC is used in the tandem mode, power supply requirements for a pair of doors are minimized.
- Since the attached electric latch retraction devices are powered in a sequential manner, the inrush current of each device is staggered. This creates a lower current requirement upon activation. A smaller power supply can now be used to operate the pair of devices.



SPECIFICATIONS

Input Voltage	12VDC or 24VDC
Input Current	140mA max
Output Voltage	12VDC or 24VDC (Same as Input Voltage)
Operator & ELR Contacts	10 AMP @ 30VDC (Resistive) (4 Relays)
Access Control Inputs	N/O Dry Contact (2 Inputs)
Dimensions	3.20"W x 4.30"H
Weight	0.2 lbs



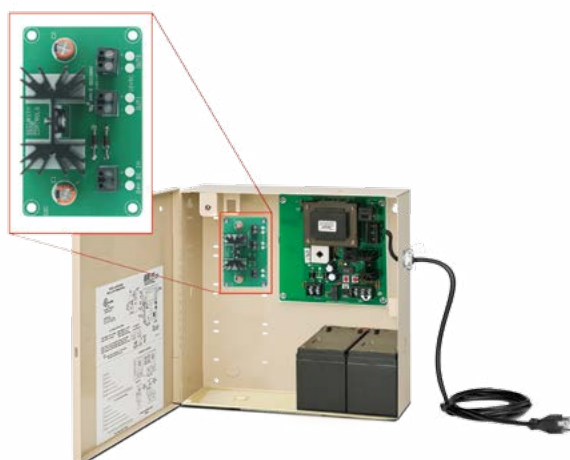
Modules may be ordered with or without power supplies. Different function modules may be used in the same power supply or cabinet. Contacts: 2.5 Amps inductive, 5 Amps resistive @ 30 VDC unless specified otherwise.

VOLTAGE REGULATOR MODULE

12VR

The addition of the 12VR Module enables dual 12VDC and 24VDC output capability.

With the SDC 600 Series power supply output set at 24VDC for locking devices and components, the addition of the 12VR provides a separate 12VDC, 500 mA output for 12VDC Access Controllers and readers or other devices. The need for separate power supplies for 12VDC and 24VDC requirements within the same system is eliminated.

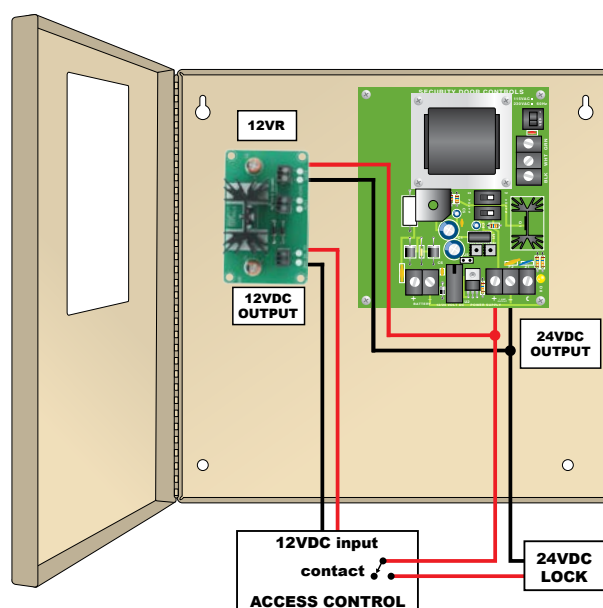


FEATURES

- The addition of the 12VR provides a separate 12VDC, 500 mA output for 12VDC access controls and components. The total combined 12V/24V load may not exceed the maximum power supply output rating.

SPECIFICATIONS

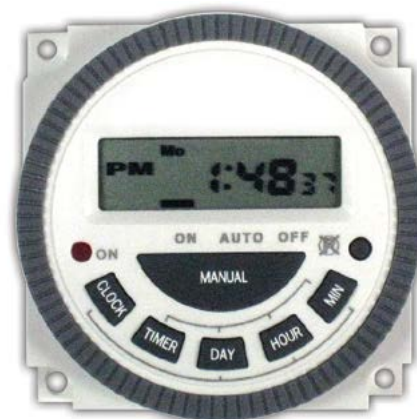
Input	24VDC
Output	500 mA @ 12VDC
Capacity	602RF One Maximum 631RF One Maximum 632RF Two Maximum 634RF Four Maximum 636RF Six Maximum
Dimensions	3.25" H x 2" W



DOOR CONTROL ACCESSORIES

14-2 (24V) & 14-2-12 (12V) Seven Day, Skip-A-Day Timer

The SDC 14-2 is a compact, field programmable, 7 day skip-a-day timer module recommended for automatic timed locking and unlocking of one door or all doors on the same circuit. The timer may be programmed to skip unlocking on selected days or weekends. The timer may also be installed in a power supply.



FEATURES

- Field Programmable
- 7 Day timer module recommended for automatic timed locking and unlocking of one door or all doors on the same circuit
- Schedule up 6 Events Maximum on Single or Multiple Days, Manual on-off Override
- Replaceable Lithium Battery Maintains Time and Schedule During Power Outage

MODELS

- 14-2** Seven Day Timer 24VDC
- 14-2-12** Seven Day Timer 12VDC

SPECIFICATIONS

Input Voltage	12V AC/DC or 24V AC/DC (Specify)
Contact	SPDT Dry, 16 Amps @ 30VDC
Dimensions	2.375"H x 2.375"W x 1.25"D
Weight	0.25 lbs

RB12V4 & RB12V7 Backup Batteries

SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure.



RB12V4



RB12V7

MODELS

-  **RB12V4** 12V/5Ah Battery,
- RB12V7** 12V/8Ah Battery



Access Control System WIRE GAUGE SIZE & DISTANCE CHART

For 12V and 24V AC/DC

To determine the correct wire gauge to use on "one circuit" the following information is required:

- The quantity, voltage and current draw of all lock(s) and other powered devices on one circuit.
- The distance in feet from the power supply to the furthest lock.

Add together the current draw (amps) of all locks on the same circuit. Cross reference the total amps with the distance between the power supply and the farthest lock to determine the wire gauge required.

"One circuit" implies that two wires are being run from the power supply to one or more locks in parallel. The last lock on the pair of wires should not exceed the maximum distance number shown on the chart for that gauge of wire and total current draw in Amps.

All wiring must be installed in accordance with all state and local codes.

Minimum Wire Gauge for 12 volts AC or DC

Maximum Distance Allowable For a 5% Voltage Drop From the Power Supply to the Furthest Load On One Circuit

AMPS	25ft	50ft	75ft	100ft	150ft	200ft	250ft	300ft	350ft
0.12	20	20	20	20	20	20	20	18	18
0.25	20	20	20	20	18	18	16	16	16
0.35	20	20	20	18	18	16	16	14	
0.50	20	20	18	18	16	14	14		
0.75	20	18	18	16	14	14			
1.00	20	18	16	14	14				
1.50	18	18	16	14					
2.00	18	16	14	14					
2.50	18	14	14	14					
3.00	16	14	14						
3.50	16	14							
4 to 6	14								

Minimum Wire Gauge for 24 volts AC or DC

Maximum Distance Allowable For a 5% Voltage Drop From the Power Supply to the Furthest Load On One Circuit

AMPS	25ft	50ft	75ft	100ft	150ft	200ft	250ft	300ft	350ft
0.12	20	20	20	20	20	20	20	20	20
0.25	20	20	20	20	20	20	20	18	18
0.35	20	20	20	20	20	18	18	18	16
0.50	20	20	20	20	18	18	16	16	16
0.75	20	20	20	18	16	16	16	14	14
1.00	20	20	18	18	16	16	14	14	
1.50	20	18	18	16	16	14			
2.00	18	18	16	16	14				
2.50	18	18	16	14	14				
3.00	18	16	14	14	14				
3.50	18	16	14	14					
4	16	16	14						
5	16	14	14						

OHMS LAW

To Determine an Unknown Voltage:

$$E = I \times R$$

How to calculate:

$$.25 \text{ Amps (I)} \times 96 \text{ Ohms (R)} = 24 \text{ Volts (E)}$$

To Determine an Unknown Current:

$$I = P / E$$

How to calculate:

$$6 \text{ Watts (P)} \div 24 \text{ Volts (E)} = .25 \text{ Amps (I)}$$

To Determine an Unknown Current:

$$I = E / R$$

How to calculate:

$$24 \text{ Volts (E)} \div 96 \text{ Ohms (R)} = .25 \text{ Amps (I)}$$

To Determine an Unknown Wattage:

$$P = E \times I$$

How to calculate:

$$24 \text{ Volts (E)} \times .25 \text{ Amps (I)} = 6 \text{ Watts (P)}$$

To Determine an Unknown Resistance:

$$R = E / I$$

How to calculate:

$$24 \text{ Volts (E)} \div .25 \text{ Amps (I)} = 96 \text{ Ohms (R)}$$

E=Volts

I=Current, Amps

R=Resistance, Ohms

P=Power, Watts

Transformers and Plug-In DC Power Supplies

TR12 Plug-In Power Supply

The SDC TR12 1 Amp 12VDC regulated plug-in power supply.



FEATURES

- Thermal Overload Protection
- LED Power Status Indicator
- UL Listed, Class 2



SPECIFICATIONS

Primary Input	120VAC, Grounded
Secondary Output	Regulated, 12VDC @ 1 Amp
Secondary Connection	Screw Terminals
Weight	1.1 lbs



TR24 Plug-In Power Supply

The SDC TR24 1 Amp 24VDC regulated plug-in power supply.



FEATURES

- Thermal Overload Protection
- 6 Foot Cord
- UL Listed, Class 2



SPECIFICATIONS

Primary Input	120VAC, Grounded
Secondary Output	Regulated 24VDC @ 1 Amp
Connection	6 ft. Wire Leads
Weight	1.5 lbs



TP1220 Plug-In Power Supply

The SDC TP1220 is a 1.6 Amp 12VAC plug-in power supply.



FEATURES

- Thermal Overload Protection
- UL Listed, Class 2

SPECIFICATIONS

Primary Input	120VAC
Secondary Output	Fused. 12VAC @ 1.65 Amps
Secondary Connection	Screw Terminals



TP2440 Plug-In Power Supply

The SDC TP2440 is a 1.6 Amp 24VAC plug-in power supply.



FEATURES

- Thermal Overload Protection
- UL Listed, Class 2

SPECIFICATIONS

Primary Input	120VAC
Secondary Output	Fused. 24VAC @ 1.65 Amps
Secondary Connection	Screw Terminals



TRANSFORMER ACCESSORIES

BR64XL Full Wave Bridge Rectifier

SDC BR64XL Rectifier

FEATURES

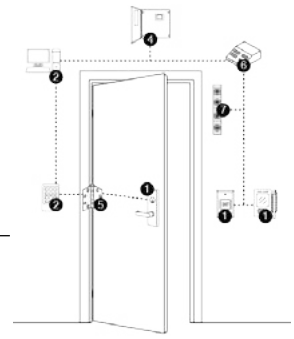
- 6" Wire Leads
- Converts AC Transformer to DC Output

SPECIFICATIONS

Primary Input	12 or 24VAC
Secondary Output	12 or 24VDC
Secondary Connection	4 Amps Maximum Load



SDC Door Check List



JOB NAME: _____

DOOR IDENTIFICATION: (EXTERIOR _____) (INTERIOR _____)

DOOR LOCATION OR NUMBER _____

SINGLE DOOR HANDING: RH ___ LH ___ RHR ___ LHR ___

DOUBLE DOORS HANDING: RH ___ LH ___ RHR ___ LHR ___

TYPE OF DOOR: HOLLOW METAL ___: ALUMINUM & GLASS ___: HERCULITE (TOP & BOTTOM RAILS) ___

HERCULITE (BOTTOM RAIL ONLY) ___: HERCULITE (PIVOT & LOCK PATCH FITTINGS) _____

DOES DOOR HAVE AN "EXIT" SIGN ABOVE IT ___ YES ___ NO

DOOR SIZE: W _____ X H _____ + DOOR THICKNESS _____ + LOCK HEIGHT _____ + LOCK BACKSET _____

HINGE TYPE _____ + **HINGE SIZE** _____ + **HINGE FINISH** _____

EXISTING LOCK TYPE & BRAND _____ + **FINISH** _____

DOOR CLOSER: SURFACE MOUNT: INSIDE ___ OR OUTSIDE ___: CLOSER MANUFACTURE _____

DOOR CLOSER: IN THE HEADER ___: HOLD OPEN FEATURE YES ___ NO ___: DEGREE OF OPENING _____

AUTOMATIC DOOR OPERATOR: MANUFACTURE & MODEL# _____

AUTOMATIC DOOR OPERATOR PUSH PLATE SWITCHES: HARD WIRED _____ OR WIRELESS _____

WHAT KIND OF CEILING _____ (PLASTER, DRYWALL, LIFT OUT, PANELS OR PUZZLE)

HOW HIGH IS THE CEILING _____

WHAT KIND OF HEADER _____ (NONE, WOOD, STEEL, ALUMINUM, GLASS)

WHAT TYPE OF TRAFFIC: LIGHT ___ MEDIUM ___ HEAVY ___

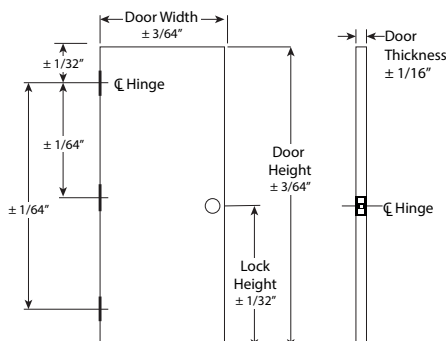
PICTURES TAKEN OF DOOR: YES ___ OR NO ___

MEASUREMENT FROM DOOR TO ACCESS CONTROLLERS: _____

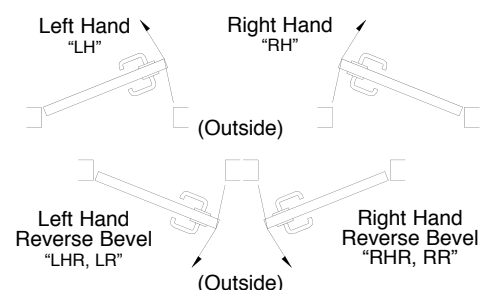
MEASUREMENT FROM DOOR TO POWER SUPPLY: _____

WIRE GAGE _____: **WIRE TYPE** _____: **AMOUNT OF WIRES** _____: **EXTRA WIRES** _____

VOLTAGE AT DOOR: _____: **VOLTAGE AT POWER SUPPLY** _____: **CURRENT AT DOOR** _____



DOOR HANDS



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Icon Index



Made in the USA



UL Listed



Grade 1



CE Listed



Weather Resistant



Available through
shipQUICK Inventory



Lifetime Warranty



3 Year Warranty



5 Year Warranty



Field Selectable



ADA Compliant



Power over Ethernet
Capable Locking Hardware

NOTES

[illegible]

PUSH UNTIL ALARM
SOUNDS. DOOR CAN BE
OPENED IN 15 SECONDS.

