

# **630 Series Power Supplies**

# 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 multidoor 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.
- 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.





631RFL



**MODELS** 

631RF Power Supply.

631RFA Power Supply,





plus 12" W x 12" H x 4" D Cabinet

plus 16" W x 14" H x 6.5" D Cabinet





shown with op-

631RFL Power Supply (less Cabinet)



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

TABLE 1: CONTROL MODULE CAPACITY\*

Power Supply:	631RF		631 F	RFA
Battery Qty.	0-2 3-4		0-2	3-4
	RB1	2V4	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

<sup>\*</sup> 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
8 Ah Battery Qty Amp Hours	1 8Ah	2 16Ah	4 32Ah
	8Ah		32Ah
Amp Hours	8Ah	16Ah	32Ah
Amp Hours Load/Amps	8Ah Power Ba	16Ah ack-up Time i	32Ah n Hours
Amp Hours Load/Amps 0.25	8Ah Power Ba	16Ah ack-up Time i	32Ah n Hours

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 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	
8 Ah Battery Qty Amp Hours	2 8Ah	4 16Ah	
	8Ah	•	
Amp Hours	8Ah	16Ah	
Amp Hours Load/Amps	8Ah Power Back-	16Ah up Time in Hrs	
Amp Hours Load/Amps 0.25	8Ah Power Back-	16Ah up Time in Hrs	

#### 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

#### 3| SPECIFY CONTROL MODULES

12VDC Regulated and Filtered Output **12VR** 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 Four Station Door Controllers **UR4-8** 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

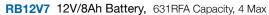


SDC power supplies equipped with batteries provide continuous operation of access controls, locking devices and peripheral components during a power failure. See Table 2 & 3 to determine battery requirements for standby power.



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









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# 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.





#### 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

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 not de-rated when charging batteries. 632RFI



632RFL Power Supply (less cabinet)

632RF Power Supply, plus 12" W Cabinet

632RFA Power Supply, plus 16" WCabinet

\* shown with optional batteries















#### 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

# 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		632	RFA
Battery Qty.	0-2	3-6	0-2	3-4
	RB1	2V4	RB <sup>-</sup>	12V7
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

<sup>\*</sup> 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	2		4
Amp Hours	5Ah		10	Αh	2	20Ah
Load/Amps	Power	Bac	k-up T	ime ir	n Ho	ours
0.25	19.6	6	4	9		124
0.50	7.8		2	О		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 32A		۱h	48Ah		
Load/Amps	Power Back-up Time in Hours			ours		
0.25	36.7		85	17	5	400
0.50	15		36	85	5	157
1.00	6.5	1	4.4	36	3	62

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	

**TABLE 3: 24VDC STANDBY POWER** 

8 Ah Battery Qty	2	4	6
Amp Hours	8Ah	16Ah	24Ah
Load/Amps	Power E	Back-up T	ime 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

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

4

9

1.50

## OW TO ORDER

#### 1| SPECIFY MODEL

632RFL 2 Amp, Class 2 Output, Less Cabinet632RF 2 Amp, Class 2 Output, 12"W Cabinet632RFA 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

#### 3| SPECIFY CONTROL MODULES

36

21

12VR 12VDC Regulated and Filtered Output Mod-

ule

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



632RF x PC x 2 RB12V4



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

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







632RFA x UR4-8 x 4 RB12V7



## 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 de-

rated when charging batteries.



634RF 4 Amp Power Supply













### **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

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

#### 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

Cover Mounted Manual Reset Switch **MR** 

for Fire/Emergency Release

System On-Off Push Switch inside Pow-PS-1

er Supply Enclosure

PS-1A System On-Off Push Switch on Enclo-

sure Cover

7 Day - Skip a Day Programmable Timer 14-2

PC 6 ft. Power Cord KL Key Lock Cover 220V/230V 230VAC, 50/60Hz

#### 3| SPECIFY CONTROL MODULES

12VDC Regulated and Filtered Output Module **12VR** 

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

Control Relay - 4 Independent DPDT Relays CR4

**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



634RF x 2-UR4-8 x 2 RB12V7

#### TABLE 1: CONTROL MODULE CAPACITY \*

Power Supply:	634RF	
Battery Qty.	0-2	3-6
	RB1	2 <b>V</b> 7
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
. Z 0, . Z . 0		

<sup>\*</sup> Total combined load of modules and access control hardware may not exceed 4 amp.

#### TABLE 2: 12VDC STANDRY POWER

TABLE 2, 12VDC STAINDBY POVVER					
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.



**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.





#### 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.















## **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
<b>Output Protection</b>	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

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



#### 1| SPECIFY MODEL

**636RF** 6 Amp Power Supply

One 6 Amp Output or Three 2 Amp Class 2 Outputs

#### 2 | SPECIFY OPTIONS

MR	Со	ver	Mounted	Manual	Reset Switch	1

for Fire/Emergency Release

PS-1 System On-Off Push Switch inside Power

Supply Enclosure

PS-1A System On-Off Push Switch on Enclo-

sure 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 Mod-

ule

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



x 2 RB12V7

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

<sup>\*</sup> 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.



#### **RB12V7**

12VDC, 8 Amp Hour Battery





LIT-630 SERIES POWER SUPPLIES 01/17

