# 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.



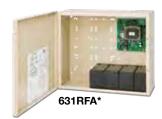


## **FEATURES**

## 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.

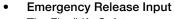






631RFL





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 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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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		631RFA	
Battery Qty.	0-2	3-4	0-2	3-4
	RB1	2V4	RB1	2 <b>V</b> 7
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	
	2	4	
8 Ah Battery Qty		7	
8 Ah Battery Qty Amp Hours	8Ah	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

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 <?> 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.





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





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