

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 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*

ALVY - Access Control Systems Unit (UL294)

APHV - Power Supplies for Use with Burglar-Alarm Systems

UTRZ - Power Supplies for Fire-Protective Signaling Systems

SZNT - Control Units and Accessories for Fire Alarm Systems

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

* shown with optional batteries



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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

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.		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

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

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

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
- 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 273 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

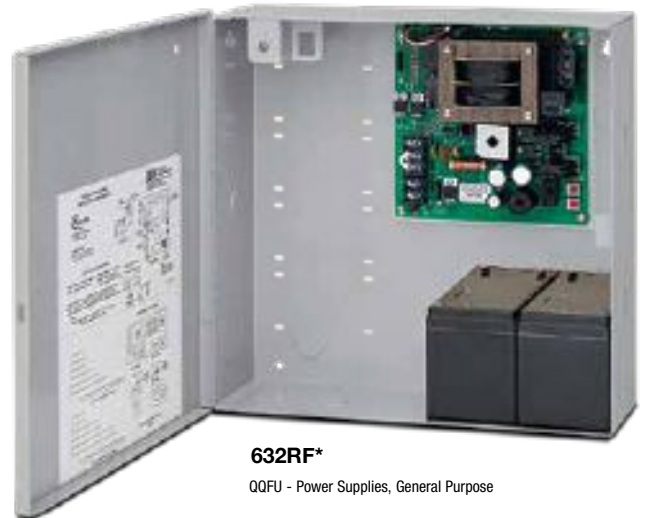


RB12V7 12V/8Ah Battery, 631RFA Capacity, 4 Max



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 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

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	
	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

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

HOW TO ORDER

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
- 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 273 for more info on control modules



ACCESSORIES

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



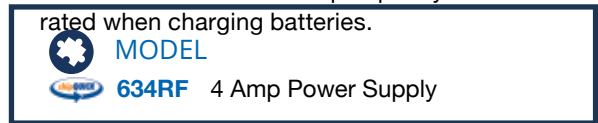
634RF 4 Amp Power Supply

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



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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

- 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
- 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 273 for more info on control modules



634RF x 2-UR4-8
x 2 RB12V7

TABLE 1: CONTROL MODULE CAPACITY *

Power Supply:	634RF	
	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

ACCESSORIES

RB12V7

12VDC, 8 Amp Hour Battery



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.

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



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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

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
- 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 273 for more info on control modules



TABLE 1:
CONTROL MODULE CAPACITY *

Power Supply:	636RF	
	Battery Qty.	0-2
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

