

# 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 de-rated when charging batteries.



MODEL

**636RF** 6 Amp Power Supply

\* shown with optional batteries



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## SPECIFICATIONS

<b>Input</b>	1 Amp @115VAC 50/60 Hz (230VAC 50/60Hz Optional, Not UL listed)
<b>Input Protection</b>	2 Amp, Manually Resettable Circuit Breaker
<b>Secondary Output</b>	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
<b>Battery Charger Output</b>	500 mA @ 13.5 or 27VDC
<b>Battery Charger Protection</b>	Auto Resetting Poly Fuse
<b>Dimensions</b>	16" W x 14" H x 6.5" D
<b>Material</b>	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

**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



TABLE 1:  
CONTROL MODULE CAPACITY \*

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

\* 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

