



The apS™ Advanced Power System provides uninterrupted power for the apC®/8X and iSTAR™ intelligent access control and alarm monitoring panels. The apS and apC/8X or iSTAR combination serves as the basic building block for any C•CURE Security Management System.

The apS connects directly to the main power fail input replacing the standard power supply provided with the apC/8X or iSTAR. When the apS senses an AC power failure it immediately notifies the host, while continuing to supply the power required to operate the panels and connected readers.

Two relay outputs are provided on the apS for connection to inputs on the apC/8X or iSTAR. One is connected to the “power fail” input, and indicates loss of AC power to the apS. A second output is connected to a general purpose input and indicates low battery voltage or impending loss of backup power.

LED indicators located on the cabinet door of the apS display AC loss and the relative battery voltage level to approximate the state of battery charge.

FEATURES & BENEFITS

- Provides uninterrupted power backup for the apC®/8X and iSTAR™
- Cabinet LEDs indicate battery voltage and AC fault
- Low battery warning
- AC failure supervision
- Single or dual battery configurations
- Dedicated interface with Main Power Fail input of apC/8X and iSTAR
- Up to 53 hours of power backup
- Cabinet width matches apC/8X and iSTAR cabinet and uses the same key
- Reverse polarity protection
- Overcurrent protection
- Thermal protection
- UL 603 compliant

SPECIFICATIONS

Input

Voltage:* 120-220 VAC, 50/60 Hz
 Current: 2.5 Amps AC Maximum

Output

DC System
 Voltage: 13.8 VDC
 Current: 3.75 ADC
 Protection: Self resetting PTC rated at 3.75 ADC

Battery

Voltage: 13.8 VDC
 Current: 4.5 ADC maximum
 Protection: Fused at 10 ADC Fault Outputs

AC Fault

Output: Form C dry contact
 Activation: AC power failure, blown AC fuse

Low Battery

Output: Form C dry contact
 Activation: Below 10.3 VDC

*Transformer is end-user strappable for 240 VAC, 50/60 Hz operation.

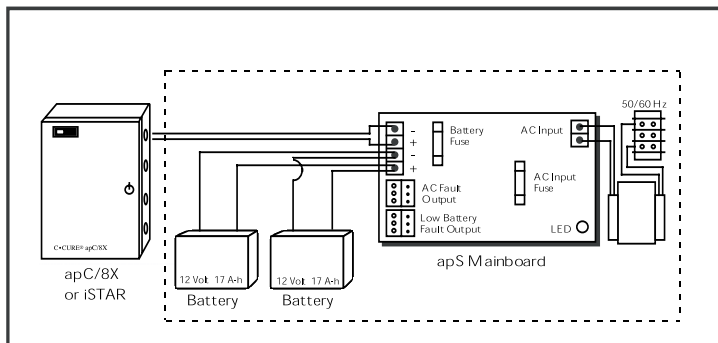
Batteries

Single Rating: 12 Volt 17 Amp-hour
 Dual Rating: 12 Volt 34 Amp-Hour

Physical Characteristics

Dimensions: 16.25 x 14.5 x 4 inches
 41.28 x 36.83 x 10.16 cm
 Weight: 19.5 lbs. (8.8 kg)
 Battery Weight (single): 13.5 lbs. (6.1 kg)
 Housing: 16 Gauge Carbon Steel
 Operating Temperature: 32° to 122°F
 (0° to 50°C)

apS INSTALLATION DIAGRAM



Current Draw at 12VDC

Mag Stripe: RM1-MP, RM2-MP	80mA
Mag Stripe with LCD Display: RM2L-MP	180mA
Mag Stripe Mullion: RM3-MP	80mA
Motorola Indala Proximity: RM1-PI, RM2-PI	80mA
Motorola Indala Proximity with LCD Display: RM2L-PI	180mA
HID Proximity: RM1-PH, RM2-PH	135mA (avg) 250mA (peak)
HID Proximity with LCD Display: RM2L-PH	235mA (avg) 350mA (peak)
HID Proximity Mullion: RM3-PH	135mA (avg) 250mA (peak)
Wiegand: RM1-W	80mA
Reader Module: RM-4	75mA
Relay Module: ARM-1	17mA (Relay Active)
iSTAR GCM	280mA
iSTAR ACM	130mA (no active relays) (add 35mA per active relay)
iSTAR relay board	35mA per active relay
apC/8X	120mA (add 35mA per active relay)
apC/L	120mA (add 17mA per active relay)
Star Coupler	80mA (no active relays) (add 17mA per active relay)
Mini Star Coupler	40mA
R/48	60mA (no active relays) (add 17mA per active relay)
I/32	310mA
8 Input Module: I8	150mA
8 Output Module: R8	150mA (no active relays) (add 17mA per active relay)
MRM	140mA
WPSC lower	60mA
WPSC upper	70mA

These currents are estimates. Voltage tolerance on 12 VDC input is +- 15%.