

## apS

### Advanced Power System

#### Features That Make a Difference:

- Provides uninterrupted power backup for iSTAR controllers and apC/8X
- Cabinet LEDs indicate battery voltage and AC fault
- Low battery warning
- AC failure supervision
- Single or dual battery configurations
- Dedicated interface with main power input of iSTAR and apC/8X
- Up to ten hours backup time with dual batteries
- Cabinet width matches iSTAR and apC/8X cabinet and uses the same key
- Reverse polarity protection
- Overcurrent protection
- Thermal protection
- UL 603 and UL 294 compliant



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

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

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

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

## Specifications

### Input

Voltage .....120 VAC, 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

### Batteries

Single Rating .....12 V/17 Ah  
Dual Rating .....12 V/34 Ah  
Battery Backup Time .....Five hours at full load using one  
17 Ah SLA battery; ten hours at full load  
using two 17 Ah SLA batteries  
Battery Recharge Time .....12 hours

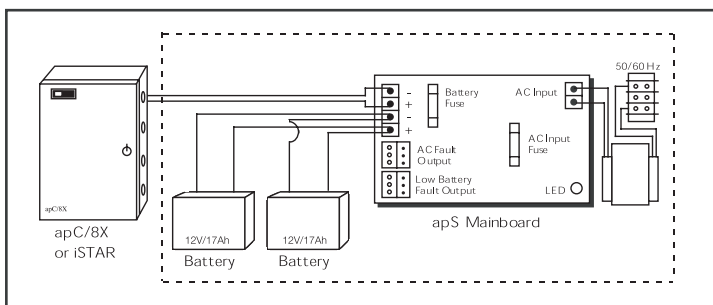
### Physical

Dimensions (H x W x D) .....41.28 x 36.83 x 10.16 cm;  
(16.25 x 14.5 x 4.0 in)  
Weight without Battery .....8.8 kg (19.5 lbs)  
Battery Weight (single) .....6.1 kg (13.5 lbs)  
Housing .....16 gauge carbon steel  
Operating Temperature .....0° to 50°C (32° to 122°F)  
Heat Dissipation .....597 BTU/hr

### Regulatory

Agency Certifications .....UL 603, UL 294, RoHS, FCC

## apS Installation Diagram



(1) These currents are estimates. Voltage tolerance on 12 VDC inputs is +/- 15%.

### Current Draw at 12 VDC<sup>1</sup>

Panels and Boards  
iSTAR GCM Boards .....290 mA  
iSTAR ACM Boards .....180 mA  
RM-4 Board .....75 mA  
RM-4E Board .....280 mA without LCD  
iSTAR Relay Board .....35 mA  
I8 Input Module .....150 mA  
R8 Output Module .....150 mA (no active relays – add 17 mA  
per active relay)  
apC/L .....120 mA  
apC/8X .....120 mA  
Star Coupler .....80 mA (no active relays – add 17 mA  
per active relay)  
Mini Star Coupler .....40 mA  
WPSC Lower .....60 mA  
WPSC Upper .....70 mA

### Readers

Software House Readers .....125 mA  
Indala FlexPass Readers .....65 mA  
Indala FlexPass Midrange .....120 mA  
Sensor Eng WR1, WR2 .....30 mA  
HID MiniProx .....60 mA  
HID Thinline II .....20 mA (avg); 115 mA (peak)  
HID ProxPro .....100 mA  
HID MaxiProx .....200 mA  
Barantec Readers .....150 mA  
ProxPoint Plus .....30 mA (avg); 75 mA (peak)  
HID iCLASS Readers .....55 mA (avg); 121 mA (peak)  
RM with Mag Stripe .....80 mA  
RM with Mag Stripe with LCD .....180 mA  
RM with Indala Proximity .....80 mA  
RM with Indala Proximity  
with LCD .....180 mA  
RM with HID Proximity .....135 mA (avg); 250 mA (peak)  
RM with HID Proximity  
with LCD .....235 mA (avg); 350 mA (peak)  
RM with HID  
Proximity Mullion .....135 mA (avg); 250 mA (peak)  
RM1-W with Wiegand .....80 mA  
RM with HID iCLASS .....160 mA  
RM with HID iCLASS and LCD .....225 mA  
RM with Software House  
Multi-Technology .....170 mA (avg); 220 mA (peak)  
RM with Software House  
Multi-Technology and LCD .....270 mA (avg); 320 mA (peak)  
ARM-1 Relay Module .....17 mA (relay active)  
MRM .....140 mA  
Schlage Scramble Keypad .....500 mA max  
Wireless PIM .....300 mA  
Wireless Reader Interface (WR1) .....300 mA  
T.Rex Request to Exit Detector .....50 mA

### iSTAR Pro PCMCIA Cards

Diamond SupraMax Modem .....220 mA  
SMC EZ Card 10/100 Ethernet .....400 mA

### Model Numbers

AS0063-00 .....apS with battery, 120 VAC  
AS0063-01 .....apS without battery, 120 VAC

## Related Products



C•CURE 9000



C•CURE 800/8000



iSTAR Pro

## Approvals



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