

# **System Power Requirements**

#### FCPS-24s8 Power Supply

Protected Premises: 537 Congress Street 3rd Floor Fire Alarm Addition Date: 2/10/2014

Address: 537 Congress Street

City: Portland State: ME Zip: 04101

Prepared By: Norris Inc. Phone: 207-883-3473

Address: 2257 Broadway Email:

City: South Portland State: ME Zip: 04106

# **AC Branch Current Requirements**

3.20 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

### **Primary Standby Load**

**0.09** Amps

Current load on the primary power supply during **non-alarm** conditions.

## **Primary Alarm Load**

**1.85** Amps

Current load on the primary power supply during **alarm** conditions.

### **Secondary Load Requirements**

2.06 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load	х	Required Standby Time	
0.065 A		24 hours	1.56
Secondary Alarm Load	х	Required Alarm Time (hours)	
1.845 A		0.084 hours	0.15
	1.71		
	x 1.2		
Secondary Load Requirements			

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#### **Battery Selection**

7 Amp Hours

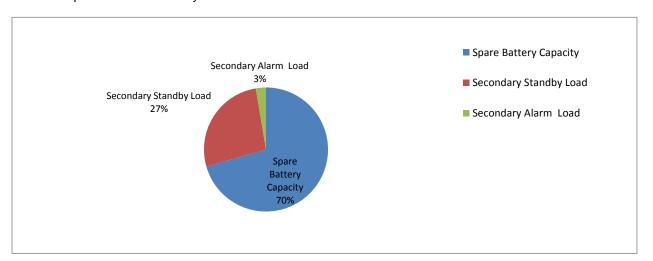
Select batteries from the list below.

7 AH BAT-1270 Battery (12 volt)

Two Four (two 12VDC sets in parallel)

# **Battery Distribution Chart**

Shows amp-hour distribution of your selections.



#### **Comments**

- 1. Batteries will fit in the FACP cabinet.
- 2. Selected battery size meets secondary load requirements.
- 3. The selected batteries (7AH) are within the charger range of this power supply (7-18AH).

Spare Battery Capacity	4.94	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	1.87	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.19	Secondary Alarm Load (AH) * Derating Factor