



# System Power Requirements

## NFW2-100 Fire Alarm Control Panel

|  |                                    |
|--|------------------------------------|
| Protected Premises: <u>129 Grant St. Apts</u>          | Date: <u>12/26/2013</u>            |
| Address: <u>129 Grant St.</u>                          |                                    |
| City: <u>Portland</u>                                  | State: <u>ME</u> Zip: <u>04101</u> |
| Prepared By: <u>Norris Inc.</u> Phone: <u>883-3473</u> |                                    |
| Address: <u>2257 Broadway</u> Email: _____             |                                    |
| City: <u>South Portland</u>                            | State: <u>ME</u> Zip: <u>04106</u> |

### AC Branch Current Requirements **3.00** AMPS @ 120 VAC

Current required by source to power the fire alarm system.

### Primary Standby Load **0.14** Amps

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

### Primary Alarm Load **2.56** Amps

Current load on the primary power supply during alarm conditions.

### Secondary Load Requirements **5.61** Amp Hours

Total Secondary Load from the calculation table below.

| Current Draw                             |   | Time (hours)                | Total (AH)     |
|--|---|-----------------------------|----------------|
| <b>Secondary Standby Load</b><br>0.185 A | x | Required Standby Time       |                |
|  |   | 24 hours                    | 4.43           |
| <b>Secondary Alarm Load</b><br>2.832 A   | x | Required Alarm Time (hours) |                |
|  |   | 0.084 hours                 | 0.24           |
| Total Secondary Load                     |   |                             | 4.67           |
| Derating factor                          |   |                             | x 1.2          |
| <b>Secondary Load Requirements</b>       |   |                             | <b>5.61</b> AH |

### Battery Selection **7** Amp Hours

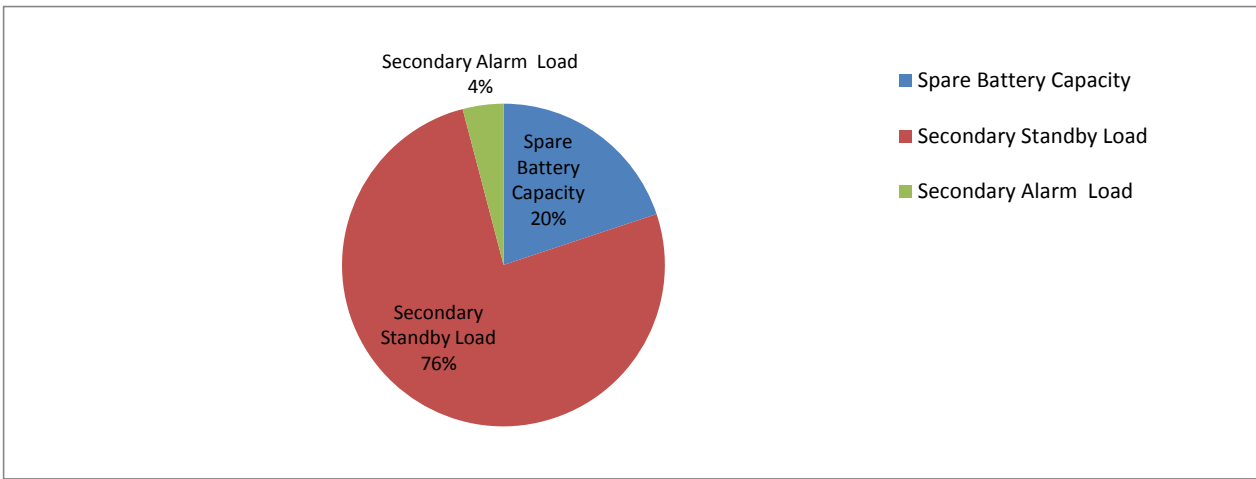
Select batteries from the list below.

**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 | 1.39 | Battery Selection (AH) - Secondary Load Requirements (AH) |
| Secondary Standby Load | 5.32 | Secondary Standby Load (AH) * Derating Factor             |
| Secondary Alarm Load   | 0.29 | Secondary Alarm Load (AH) * Derating Factor               |