

## NFW2-100 Fire Alarm Control Panel

Protected Premises: <u>Paris Farmers Union</u>	Date: <u>1/10/2014</u>
Address: <u>55 Warren Ave</u>	
City: <u>Portland</u> State: <u>ME</u> Zip: <u>04103</u>	
Prepared By: <u>Norris Inc.</u>	Phone: <u>207-883-3473</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** 0.05 Amps

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

**Primary Alarm Load** 4.58 Amps

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

**Secondary Load Requirements** 6.24 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
<b>Secondary Standby Load</b> 0.200 A	x	Required Standby Time	
		24 hours	4.80
<b>Secondary Alarm Load</b> 4.850 A	x	Required Alarm Time (hours)	
		0.084 hours	0.41
Total Secondary Load			5.20
Derating factor			x 1.2
<b>Secondary Load Requirements</b>			<b>6.24</b> AH

**Battery Selection** 12 Amp Hours

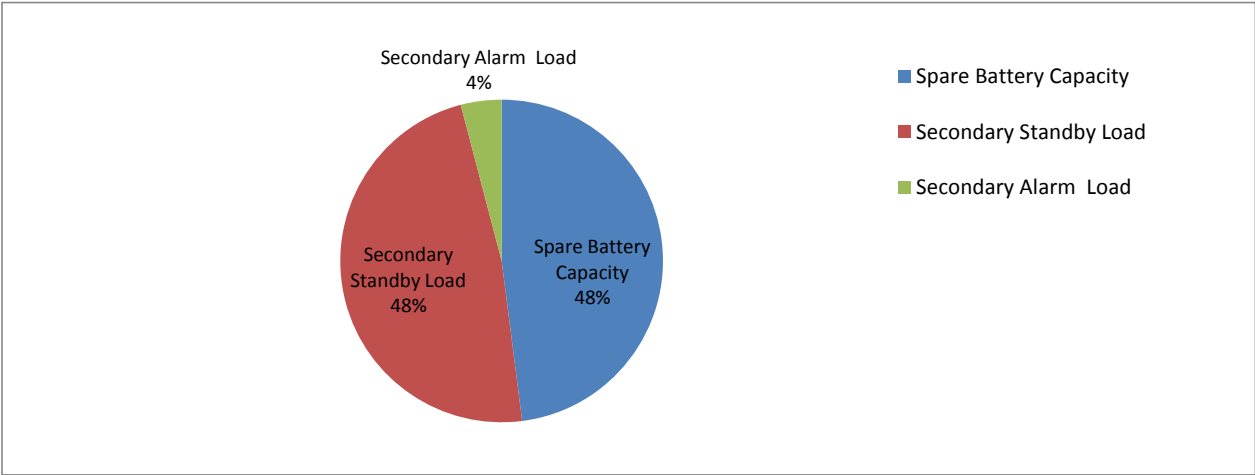
Select batteries from the list below.

12 AH BAT-12120 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 (12AH) are within the charger range of this power supply (7-18AH).

Spare Battery Capacity	5.76	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	5.75	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.49	Secondary Alarm Load (AH) * Derating Factor