

System Power Requirements

NFW2-100 Fire Alarm Control Panel

Protected Premises: <u>556 Cumberland Avenue Apartments</u>	Date: <u>1/6/2015</u>
Address: <u>556 Cumberland Avenue</u>	
City: <u>Portland</u> State: <u>ME</u> Zip: <u>04101</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 0.14 Amps

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

Primary Alarm Load 1.72 Amps

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

Secondary Load Requirements 6.20 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.208 A	x	Required Standby Time	
		24 hours	5.00
Secondary Alarm Load 1.994 A	x	Required Alarm Time (hours)	
		0.084 hours	0.17
Total Secondary Load			5.17
Derating factor			x 1.2
Secondary Load Requirements			6.20

AH

Battery Selection 18 Amp Hours

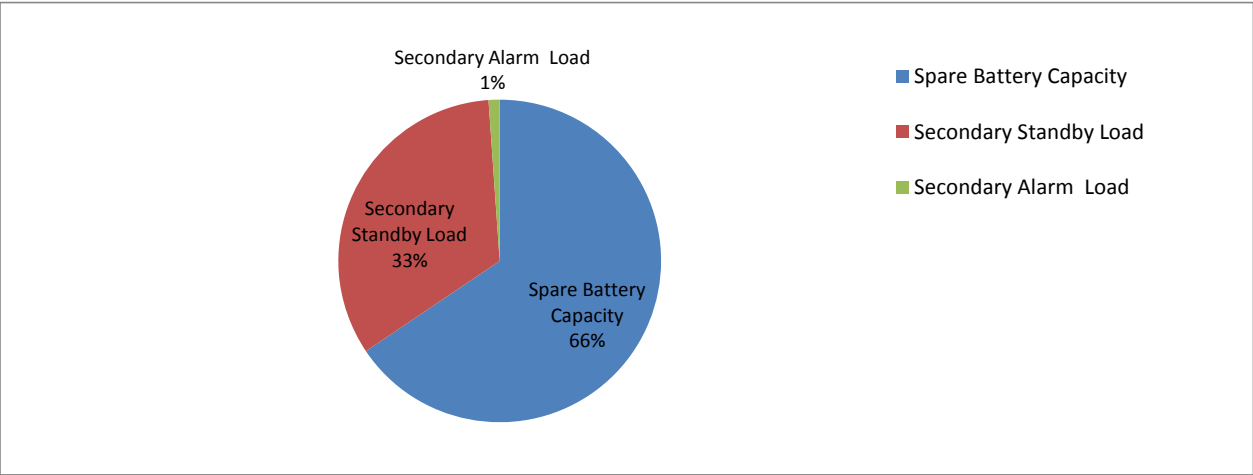
Select batteries from the list below.

18 AH BAT-12180 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 (18AH) are within the charger range of this power supply (7-18AH).

Spare Battery Capacity	11.80	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	6.00	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.20	Secondary Alarm Load (AH) * Derating Factor