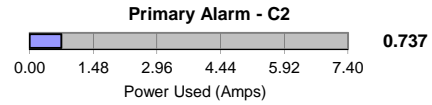
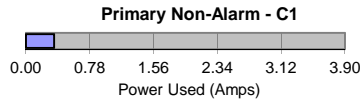




System Current Draw - NFS-320

Total Current	
C1	0.347 A
C2	0.737 A
C3	0.387 A
C4	0.777 A



Device	C1 - Primary Non-Alarm			C2 - Primary Alarm			C3 - Secondary Non-Alarm						
	Qty		Draw	Total	Qty		Draw	Total	Qty		Draw	Total	
CPU-320	1	x	0.25000	0.25000	1	x	0.25000	0.25000	1	x	0.25000	0.25000	
CPS-24	1	x	0.00000	0.00000	1	x	0.00000	0.00000	1	x	0.04000	0.04000	
UDACT-2 Communicator	1	x	0.05200	0.05200	1	x	0.08700	0.08700	1	x	0.05200	0.05200	
FSP-851	68	x	0.00030	0.02040					68	x	0.00030	0.02040	
FST-851	22	x	0.00030	0.00660					22	x	0.00030	0.00660	
FRM-1	10	x	0.00026	0.00255					10	x	0.00026	0.00255	
FMM-101	43	x	0.00035	0.01505					43	x	0.00035	0.01505	
SLC Loop Device Activation Current					1	x	0.40000	0.40000					
Total Non-Alarm Load:				0.347	Total Alarm Load:			0.737	Total Standby Load:				0.387

C4 - Maximum Secondary Fire Alarm Current Draw				
Only include those additional power supplies that are backed up by the control panels batteries.				
Device	Qty		Draw	Total
Total Primary Alarm Load - C2	1		0.737	0.737
CPS-24	1	x	0.040	0.040
NCA2 - Backlight Off with loss of AC	0	x	-0.200	
APS-6R Power Supplies			0.000	
APS2-6R Power Supplies			0.000	
ACPS-610 Power Supplies			0.000	
FCPS-24S6 Power Supplies			0.000	
FCPS-24S8 Power Supplies			0.000	
HPFF8 Power Supplies			0.000	
HPFF12 Power Supplies			0.000	
DAA2 Series			0.000	
DAX Series			0.000	
DAA Series			0.000	
DS-DB			0.000	
FireVoice Panels			0.000	
FireVoice Distributed Audio Panels			0.000	
XPIQ			0.000	
AA-30	0	x	3.000	
AA-120	0	x	7.300	
Other Power Supply	0	x	0.000	
Other Power Supply	0	x	0.000	
Other Power Supply	0	x	0.000	
Total Standby Alarm Load:				0.777



System Power Requirements

Notifier NFS-320 Fire Alarm Control Panel

Protected Premises: <u>100 State Street</u>	Date: <u>5/24/2013</u>
Address: <u>100 State Street</u>	
City: <u>Portland</u>	State: <u>Maine</u> Zip: _____
Prepared By: <u>Norris Inc</u>	Phone: _____
Address: <u>2257 West Broadway</u>	Email: _____
City: <u>South Portland</u>	State: <u>Maine</u> Zip: <u>04106</u>

AC Branch Current Requirements 5.00 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load 0.35 Amps

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

Primary Alarm Load 0.74 Amps

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

Secondary Load Requirements 11.37 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.387 A	x	Required Standby Time	
		24 hours	9.28
Secondary Alarm Load 0.777 A	x	Required Alarm Time (hours)	
		0.250 hours	0.19
Total Secondary Load			9.47
Derating factor			x 1.2
Secondary Load Requirements (Amp Hours)			11.37

AH

Battery Selection 18 Amp Hours

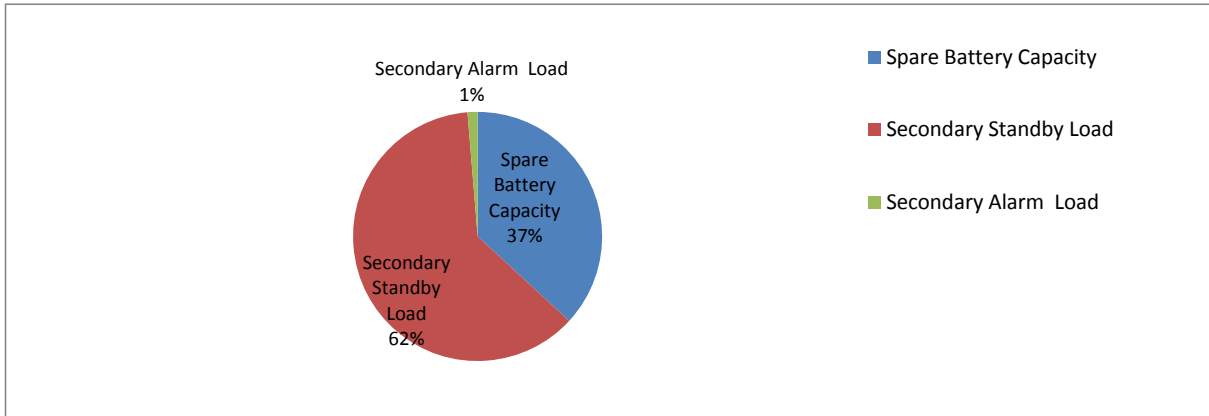
Select batteries from the list below.

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 (18-200AH).

Spare Battery Capacity	6.63	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	11.13	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.23	Secondary Alarm Load (AH) * Derating Factor