NOTIFIER by Honeywell

System Power Requirements

Notifier NFS2-640 Fire Alarm Control Panel

Protected Premises:	USM - Luther Bonney Building			Date:	7/8/2013
Address:					
City:	Portland	State:	Maine	Zip:	
Prepared By:	BK Systems, Inc.			Phone:	603-647-8775
Address:	4 Cote Avenue			Email:	
City:	Goffstown	State:	New Hampshire	Zip:	03045

AC Branch Current Requirements

5.00 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load

1.19 Amps

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

Primary Alarm Load

1.55 Amps

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

Secondary Load Requirements

35.83 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 1.233 A	x	Required Standby Time 24 hours	29.59
Secondary Alarm Load 1.590 A	x	Required Alarm Time 0.167 hours	0.27
		Total Secondary Load	29.86
		Derating factor	x 1.2
		Secondary Load Requirements (Amp Hours)	**35.83** AH

Battery Selection

55 Amp Hours

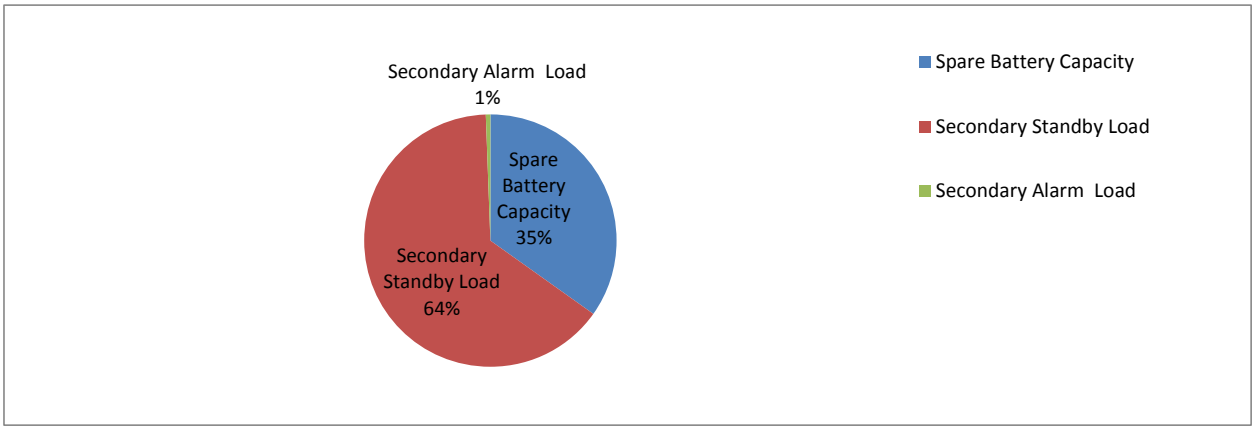
Select batteries from the list below.

55 AH BAT-12550 Battery (12 volt)

● Two ● Four (two 12VDC sets in parallel)

Battery Distribution Chart

Shows amp-hour distribution of your selections.



Comments

1. Battery size exceeds FACP capacity. BB-55 or other external battery box
2. Selected battery size meets secondary load requirements.
3. The selected batteries (55AH) are within the charger range of this power supply (18-200AH).

Spare Battery Capacity	19.17	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	35.51	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.32	Secondary Alarm Load (AH) * Derating Factor

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Device Current Draw

NFS2-640 Fire Alarm Control Panel

Quantity x [device current draw] = total current draw per device (in amps)

Part Number	Qty	Primary Non-Alarm	Primary Alarm	Secondary Non-Alarm
CPU2-640	1	x [0.25000] = 0.25000	x [0.25000] = 0.25000	x [0.25000] = 0.25000
CPS-24	1	x [0.00000] = 0.00000	x [0.00000] = 0.00000	x [0.04000] = 0.04000
NCA2 - Backlight On	1	x [0.40000] = 0.40000	x [0.40000] = 0.40000	x [0.40000] = 0.40000
HPFF8 Power Supplies	2	x [0.00000] = 0.00000	x [0.00000] = 0.00000	x [0.00000] = 0.00000
DAA Series	3	x [0.00000] = 0.00000	x [0.00000] = 0.00000	x [0.00000] =
DVC-EM	1	x [0.44000] = 0.44000	x [0.44000] = 0.44000	x [0.44000] = 0.44000
DVC-KD	1	x [0.06000] = 0.06000	x [0.06000] = 0.06000	x [0.06000] = 0.06000
NBG-12LX	19	x [0.00038] = 0.00713	x [0.00000] = 0.00000	x [0.00038] = 0.00713
FSP-851	74	x [0.00030] = 0.02220	x [0.00000] = 0.00000	x [0.00030] = 0.02220
FST-851	20	x [0.00030] = 0.00600	x [0.00000] = 0.00000	x [0.00030] = 0.00600
DNR	7	x [0.00000] = 0.00000	x [0.00000] = 0.00000	x [0.00000] = 0.00000
FSP-851R	7	x [0.00030] = 0.00210	x [0.00000] = 0.00000	x [0.00030] = 0.00210
RTS151	7	x [0.00000] = 0.00000	x [0.00000] = 0.00000	x [0.00000] = 0.00000
FMM-1	4	x [0.00035] = 0.00140	x [0.00000] = 0.00000	x [0.00035] = 0.00140
FMM-101	2	x [0.00035] = 0.00070	x [0.00000] = 0.00000	x [0.00035] = 0.00070
FRM-1	14	x [0.00026] = 0.00357	x [0.00000] = 0.00000	x [0.00026] = 0.00357
SLC Loop Device Activation Current	1	x [0.00000] = 0.00000	x [0.40000] = 0.40000	x [0.00000] = 0.00000
Total (Amperes):		**1.1931 A**	**1.5500 A**	**1.2331 A**

Part Number	Qty	Secondary Alarm
Total Primary Alarm Load - C2	1	x [1.55000] = 1.55000
CPS-24	1	x [0.04000] = 0.04000
Total (Amperes):		**1.5900 A**