NOTIFIER®			
	Protected Premis		

System Power Requirements

Notifier NFS2-640 Fire Alarm Control Panel

Protected Pre	emises: USM - Masterton Building		Date: 6/27/2013
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: <u>03045</u>

AC Branch Current Requirements

5.00 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load

1.36 Amps

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

Primary Alarm Load

1.73 Amps

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

Secondary Load Requirements

39.18 *A*

Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load		Required Standby Time	
1.348 A	X	24 hours	32.36
Secondary Alarm Load	,	Required Alarm Time	
1.765 A	X	0.167 hours	0.29
Total Secondary Load 32.65			32.65
Derating factor x 1.2			
Secondary Load Requirements (Amp Hours) 39.18			

Battery Selection

55 Amp Hours

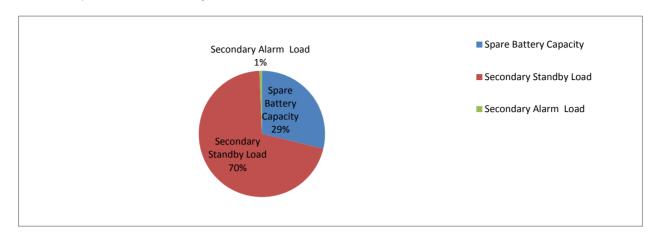
Select batteries from the list below.

55 AH BAT-12550 Battery (12 volt)

TwoFour (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	15.82	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	38.83	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.35	Secondary Alarm Load (AH) * Derating Factor



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	2	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
RM-1 (with DVC-EM)	1	x [0.07500] = 0.07500	x [0.07500] = 0.07500	x [0.07500] = 0.07500
LCD-80, LCD-80TM	1	x [0.10000] = 0.10000	x [0.10000] = 0.10000	x [0.05000] = 0.05000
NBG-12LX	14	x [0.00038] = 0.00525	x [0.00000] = 0.00000	x [0.00038] = 0.00525
FSP-851	47	x [0.00030] = 0.01410	x [0.00000] = 0.00000	x [0.00030] = 0.01410
FST-851	15	x [0.00030] = 0.00450	x [0.00000] = 0.00000	x [0.00030] = 0.00450
DNR	6	x [0.00000] = 0.00000	x [0.00000] = 0.00000	x [0.00000] = 0.00000
FSP-851R	6	x [0.00030] = 0.00180	x [0.00000] = 0.00000	x [0.00030] = 0.00180
RTS151	6	x [0.00000] = 0.00000	x [0.00000] = 0.00000	x [0.00000] = 0.00000
FMM-1	7	x [0.00035] = 0.00245	x [0.00000] = 0.00000	x [0.00035] = 0.00245
FMM-101	2	x [0.00035] = 0.00070	x [0.00000] = 0.00000	x [0.00035] = 0.00070
FRM-1	17	x [0.00026] = 0.00434	x [0.00000] = 0.00000	x [0.00026] = 0.00434
SLC Loop Device Activation Current	1	x [0.00000] = 0.00000	x [0.40000] = 0.40000	x [0.00000] = 0.00000
Total (Ampo	eres).	1.3581 A	1.7250 A	1.3481 A

Part Number	Qty	Secondary Alarm
Total Primary Alarm Load - C2	1	x [1.72500] = 1.72500
CPS-24	1	x [0.04000] = 0.04000
Total (Ampe	1.7650 A	