NOTIFIER®					
	Protected Premis				

System Power Requirements

Notifier NFS2-640 Fire Alarm Control Panel

Protected Pre	emises: USM - Masterton Building			Date:	7/8/2013
City:	Portland	State: Maine		Zip:	
Prepared By	BK Systems, Inc.			Phone:	603-647-8775
Address:	4 Cote Avenue		Email:	1 1101101	000 017 0770
City:	Goffstown	State: New Ham	pshire	Zip:	03045

AC Branch Current Requirements

5.00 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load

1.40 Amps

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

Primary Alarm Load

1.82 Amps

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

Secondary Load Requirements

40.45

Amp Hours

Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load		Required Standby Time	
1.392 A	Х	24 hours	33.40
Secondary Alarm Load	,	Required Alarm Time	
1.855 A	Х	0.167 hours	0.31
Total Secondary Load			33.71
Derating factor x 1.2			
Secondary Load Requirements (Amp Hours) 40.45			

Battery Selection 55

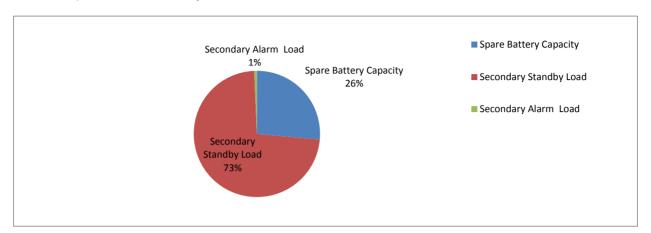
Select batteries from the list below.

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	14.55	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	40.08	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.37	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	
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
RM-1	1	x [0.02000] = 0.02000	x [0.02000] = 0.02000	x[0.02000] = 0.02000
ACM-24AT	1	x [0.01600] = 0.01600	x [0.07000] = 0.07000	x [0.01600] = 0.01600
LCD-80, LCD-80TM	1	x [0.10000] = 0.10000	x [0.10000] = 0.10000	x [0.05000] = 0.05000
NBG-12LX	15	x [0.00038] = 0.00563	x [0.00000] = 0.00000	x [0.00038] = 0.00563
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	27	x [0.00035] = 0.00945	x [0.00000] = 0.00000	x [0.00035] = 0.00945
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
	40.4			
Total (Amp	eres):	1.4015 A	1.8150 A	1.3915 A

Part Number	Qty	Secondary Alarm
Total Primary Alarm Load - C2	1	x [1.81500] = 1.81500
CPS-24	1	x [0.04000] = 0.04000
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Total (Amperes): 1.8550 A