NOTIFIER by Honeywell

System Power Requirements

Notifier NFS2-640 Fire Alarm Control Panel

Reviewed for Code Compliance
Inspections Division
Approved with Conditions

Date: 07/29/13

Protected Premises: USM - Masterton Building
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

1.40 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

Total Secondary Load from the calculation table below.

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

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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

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Device Current Draw

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

Part Number	Qty	Primary Non-Alarm	Primary Alarm	Sec
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
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
Total (Amperes):		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
Total (Amperes):		1.8550 A