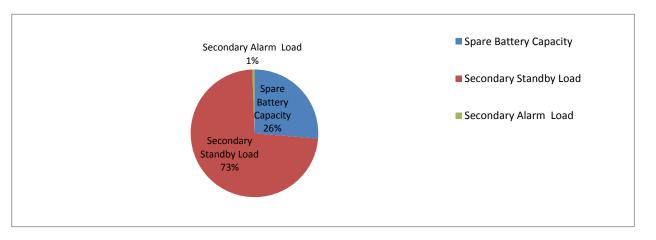


System Power Requirements

by Honeywell	Notifier NFS-3	320 Fire Alarm	Control Panel		
Drotostad Dra	mises: Brick North West Wing			Data: 1	0/22/2014
Address:	Thompson's Point			Dale.	0/23/2014
City:	Portland	State:	Maine	Zip: <u>0</u>	4104
Prepared By:	Norris Inc.			Phone: 2	07-883-3473
Address:	2257 Broadway		Email:		
City:	South Portland	State:	Maine	Zip: <u>0</u>	4106
	Current Requirements d by source to power the fire ala	5.00	AMPS @ 120 VA	C	
Primary Star Current load on non-alarm cond	the primary power supply durin	0.46	Amps		
Primary Alar Current load on alarm condition	the primary power supply durin	0.96	Amps		
-	oad Requirements	13.26 e below.	Amp Hours		
	Current Draw		Time (hour	(s)	Total (AH)
Sec	ondary Standby Load		Required Standb		
	0.457 A	Х	24 hours		10.97
Se	condary Alarm Load	x	Required Alarm Tin	ne (hours)	
	1.001 A	~	0.084 hour		0.08
				ndary Load	11.05
				ating factor	x 1.2
		econdary Loa	ad Requirements (Ar	np Hours)	13.26
Battery Sele	ction	18	Amp Hours		
Select batteries	from the list below.		-		
18 AH BAT-121	80 Battery (12 volt)				
• Two	© Four (two 12VDC sets in pa	arallel)			
1 440					

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	4.74	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	13.16	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.10	Secondary Alarm Load (AH) * Derating Factor

NOTIFICATION APPLIANCE CIRCUIT VOLTAGE DROPS							
BRICK NORTH WEST WING							
	PORTLAND, MAINE						
	CURRENT VOLTAGE VOLTAGE END						
PANEL	CIRCUIT	LENGTH	DRAW	DROP	LOSS	VOLTAGE	
FACP	NAC 1	218 FT	.877A	.97VDC	4.04%	23.03VDC	
FACP	NAC 2	211 FT	.812A	.87VDC	3.63%	23.13VDC	
FACP	NAC 3	98 FT	0.352A	.17VDC	0.71%	23.83VDC	
FACP NAC 4 350 FT 1.408 2.49VDC 10.38% 21.51VDC						21.51VDC	
Calculated Using #14AWG Wire @ Max. Length/Current							



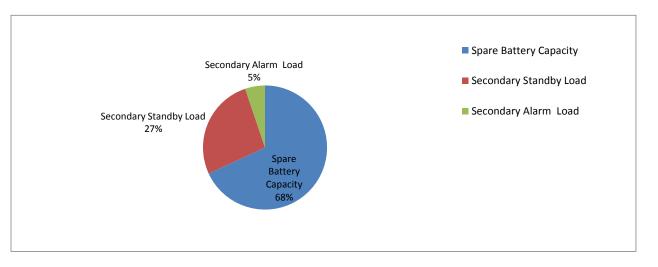
System Power Requirements

FCPS-24s8 Power Supply

Address:	mises: <u>Brick North West Wing</u> Thompson's Point		Date	e: <u>10/24/2014</u>
City:	Portland	State: ME	E Zip	o: <u>04104</u>
Prepared By:	Norris Inc.		Phone	e: <u>207-883-3473</u>
Address:	2257 Broadway		Email:	
City:	South Portland	State: ME	Zip	o: <u>04106</u>
	Current Requirements d by source to power the fire alar		/IPS @ 120 VAC	
Primary Star	the primary power supply during		mps	
Primary Alar Current load on alarm condition	the primary power supply during		mps	
-	.oad Requirements y Load from the calculation table		mp Hours	
-	-		mp Hours Time (hours)	Total (AH)
otal Secondar	y Load from the calculation table	below.		Total (AH)
otal Secondar	Current Draw condary Standby Load 0.065 A		Time (hours)	Total (AH)
otal Secondar	y Load from the calculation table Current Draw condary Standby Load 0.065 A condary Alarm Load	below.	Time (hours) Required Standby Time	1.56
otal Secondar	Current Draw condary Standby Load 0.065 A	below.	Time (hours) Required Standby Time 24 hours equired Alarm Time (hours) 0.084 hours	1.56
Fotal Secondar	y Load from the calculation table Current Draw condary Standby Load 0.065 A condary Alarm Load	below.	Time (hours) Required Standby Time 24 hours Required Alarm Time (hours) 0.084 hours Total Secondary Loa	1.56 0.30 d 1.86
Fotal Secondar	y Load from the calculation table Current Draw condary Standby Load 0.065 A condary Alarm Load	below.	Time (hours) Required Standby Time 24 hours Lequired Alarm Time (hours) 0.084 hours Total Secondary Loa Derating facto	1.56 0.30 d 1.86 or x 1.2
Total Secondar	y Load from the calculation table Current Draw condary Standby Load 0.065 A condary Alarm Load	below.	Time (hours) Required Standby Time 24 hours Required Alarm Time (hours) 0.084 hours Total Secondary Loa	1.56 0.30 d 1.86 or x 1.2
Fotal Secondary Sec Se Battery Sele Select batteries	y Load from the calculation table Current Draw condary Standby Load 0.065 A condary Alarm Load 3.594 A	below.	Time (hours) Required Standby Time 24 hours Lequired Alarm Time (hours) 0.084 hours Total Secondary Loa Derating facto	1.56 0.30 d 1.86 or x 1.2

Battery Distribution Chart

Shows amp-hour distribution of your selections.



Comments

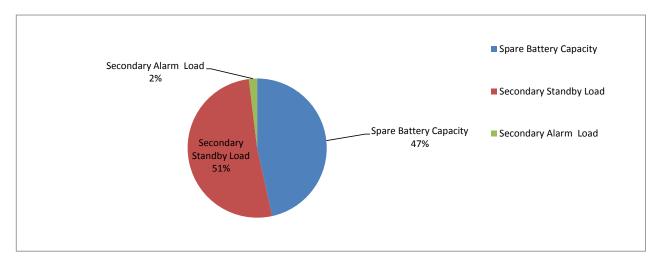
- 1. Batteries will fit in the FACP cabinet.
- 2. Selected battery size meets secondary load requirements.
- 3. The selected batteries (7AH) are within the charger range of this power supply (7-18AH).

Spare Battery Capacity	4.77	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	1.87	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.36	Secondary Alarm Load (AH) * Derating Factor

Protected Pre		est Wing Phase One - Voice Evac	Date:	11/25/2014
Address:	Thompson's Point	•		
City:	Portland	State: <u>ME</u>	Zip: <u>(</u>	04104
Prepared By:	Norris Inc.		Phone: <u>2</u>	207-883-3473
Address:	2257 Broadway	Ema	ail:	
City:	South Portland	State: <u>ME</u>	Zip: <u>(</u>	04106
urrent require /stem.	Current Requiremen d by source to power the oad Requirements y Load from the calculati	e fire alarm 9.62 Amp Hours	VAC	
urrent require ystem. Secondary L otal Secondar	d by source to power the oad Requirements y Load from the calculati Current Draw	e fire alarm 9.62 Amp Hours ion table below. Time (hours)	Total (AH)
urrent require ystem. Secondary L otal Secondar	d by source to power the oad Requirements y Load from the calculati Current Draw condary Standby Load	e fire alarm 9.62 Amp Hours ion table below. Time (hours) andby Time	
urrent require /stem. fecondary L otal Secondar Sec	d by source to power the oad Requirements y Load from the calculati Current Draw condary Standby Load 0.322 A	e fire alarm 9.62 Amp Hours ion table below. Time (x Required St 24 h	hours) andby Time ours	Total (AH) 7.73
urrent require /stem. fecondary L otal Secondar Sec	d by source to power the oad Requirements y Load from the calculati Current Draw condary Standby Load 0.322 A econdary Alarm Load	e fire alarm 9.62 Amp Hours ion table below.	hours) andby Time ours n Time (hours)	7.73
urrent require /stem. fecondary L otal Secondar Sec	d by source to power the oad Requirements y Load from the calculati Current Draw condary Standby Load 0.322 A	9.62 Amp Hours ion table below. X Required St 24 h Required Alarr 0.250	hours) andby Time ours n Time (hours) hours	7.73 0.29
urrent require /stem. fecondary L otal Secondar Sec	d by source to power the oad Requirements y Load from the calculati Current Draw condary Standby Load 0.322 A econdary Alarm Load	9.62 Amp Hours ion table below. X Required St 24 h X Required Alarr 0.250 Total S	hours) andby Time ours n Time (hours) hours Secondary Load Derating factor	7.73 0.29 8.02 x 1.2
urrent require /stem. fecondary L otal Secondar Sec	d by source to power the oad Requirements y Load from the calculati Current Draw condary Standby Load 0.322 A econdary Alarm Load	9.62 Amp Hours ion table below. X Required St 24 h Required Alarr 0.250	hours) andby Time ours n Time (hours) hours Secondary Load Derating factor	7.73 0.29 8.02

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 (12-26AH).

Spare Battery Capacity	8.38	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	9.27	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.35	Secondary Alarm Load (AH) * Derating Factor