

Notifier NFS2-640 Fire Alarm Control Panel

Protected Premises: <u>Motherhouse Senior Housing</u>	Date: <u>7/24/2017</u>
Address: <u>605 Stevens Avenue</u>	
City: <u>Portland</u> State: <u>ME</u>	Zip: <u>04103</u>
Prepared By: <u>Norris Inc</u>	Phone: <u>207-883-3473</u>
Address: <u>2257 Broadway</u>	Email: _____
City: <u>South Portland</u> State: <u>ME</u>	Zip: <u>04106</u>

AC Branch Current Requirements 5.00 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load 0.57 Amps

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

Primary Alarm Load 1.04 Amps

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

Secondary Load Requirements 13.30 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.458 A	x	Required Standby Time	
		24 hours	10.99
Secondary Alarm Load 1.077 A	x	Required Alarm Time	
		0.084 hours	0.09
Total Secondary Load			11.08
Derating factor			x 1.2
Secondary Load Requirements (Amp Hours)			13.30 AH

Battery Selection 18 Amp Hours

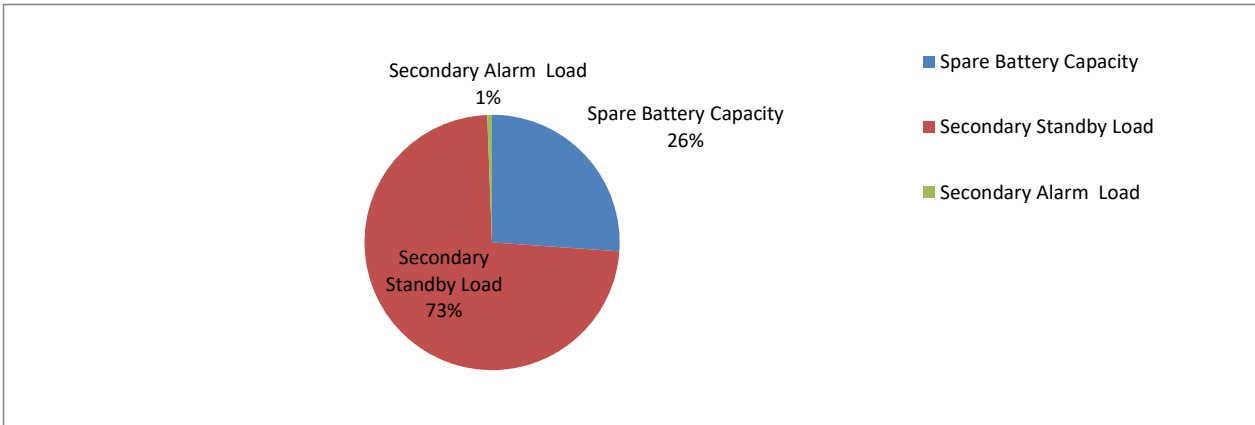
Select batteries from the list below.

18 AH BAT-12180 Battery (12 volt)

- Two Four (two 12VDC sets in parallel)

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	4.70	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	13.19	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.11	Secondary Alarm Load (AH) * Derating Factor

System Power Requirements

FCPS-24s8 Power Supply #1

Protected Premises: <u>Motherhouse Senior Housing</u>	Date: <u>7/24/2017</u>
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AC Branch Current Requirements 3.20 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load 0.09 Amps

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

Primary Alarm Load 5.71 Amps

Current load on the primary power supply during alarm conditions.

Secondary Load Requirements 2.45 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.065 A	x	Required Standby Time	
		24 hours	1.56
Secondary Alarm Load 5.708 A	x	Required Alarm Time (hours)	
		0.084 hours	0.48
Total Secondary Load			2.04
Derating factor			x 1.2
Secondary Load Requirements			2.45

AH

Battery Selection 7 Amp Hours

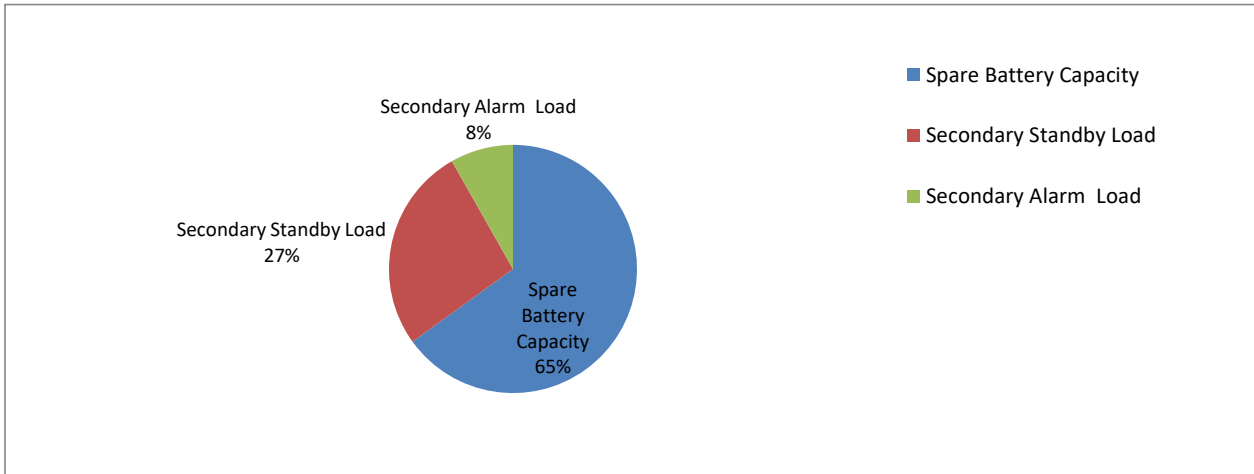
Select batteries from the list below.

7 AH BAT-1270 Battery (12 volt)

- Two Four (two 12VDC sets in parallel)

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	4.55	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	1.87	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.58	Secondary Alarm Load (AH) * Derating Factor

System Power Requirements

FCPS-24s8 Power Supply #2

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City: <u>South Portland</u> State: <u>ME</u>	Zip: <u>04106</u>

AC Branch Current Requirements 3.20 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load 0.09 Amps

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

Primary Alarm Load 4.30 Amps

Current load on the primary power supply during alarm conditions.

Secondary Load Requirements 2.31 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.065 A	x	Required Standby Time	
		24 hours	1.56
Secondary Alarm Load 4.300 A	x	Required Alarm Time (hours)	
		0.084 hours	0.36
Total Secondary Load			1.92
Derating factor			x 1.2
Secondary Load Requirements			2.31

AH

Battery Selection 7 Amp Hours

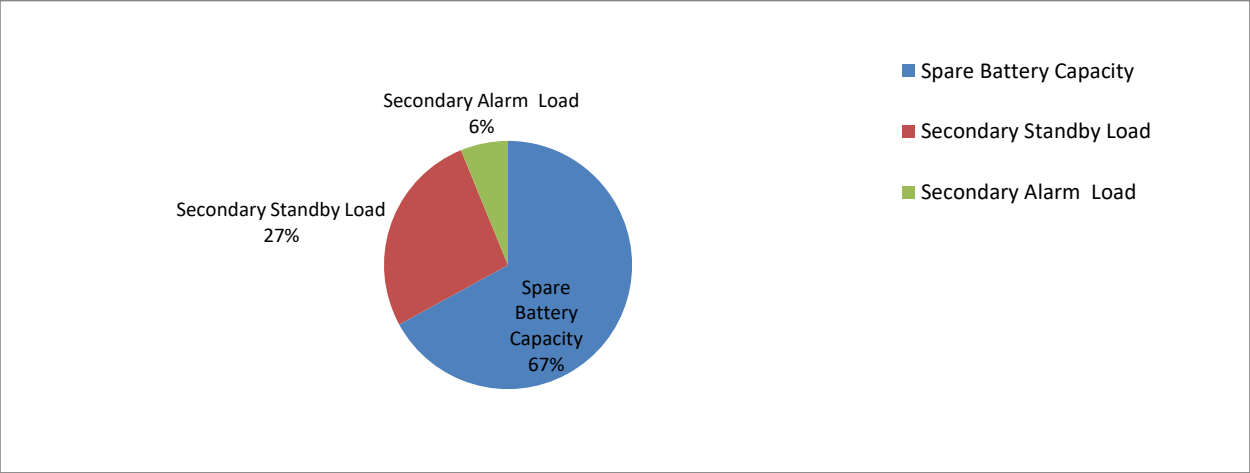
Select batteries from the list below.

7 AH BAT-1270 Battery (12 volt)

- Two
 Four (two 12VDC sets in parallel)

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	4.69	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	1.87	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.43	Secondary Alarm Load (AH) * Derating Factor

System Power Requirements

FCPS-24s8 Power Supply #3

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AC Branch Current Requirements 3.20 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load 0.09 Amps

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

Primary Alarm Load 4.16 Amps

Current load on the primary power supply during alarm conditions.

Secondary Load Requirements 2.29 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.065 A	x	Required Standby Time	
		24 hours	1.56
Secondary Alarm Load 4.155 A	x	Required Alarm Time (hours)	
		0.084 hours	0.35
Total Secondary Load			1.91
Derating factor			x 1.2
Secondary Load Requirements			2.29

AH

Battery Selection 7 Amp Hours

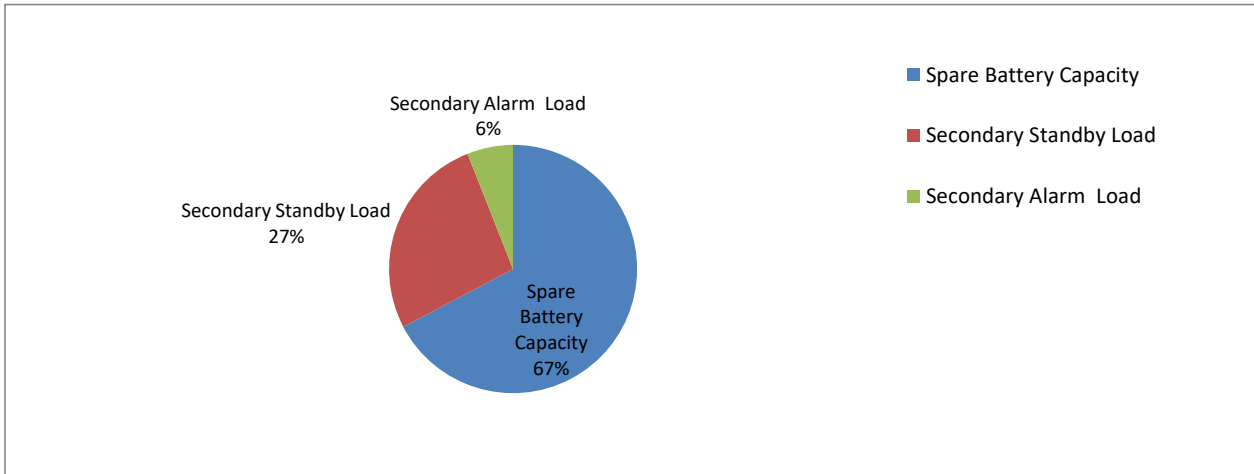
Select batteries from the list below.

7 AH BAT-1270 Battery (12 volt)

- Two
 Four (two 12VDC sets in parallel)

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	4.71	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	1.87	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.42	Secondary Alarm Load (AH) * Derating Factor

System Power Requirements

FCPS-24s8 Power Supply #4

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AC Branch Current Requirements 3.20 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Primary Standby Load 0.09 Amps

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

Primary Alarm Load 3.94 Amps

Current load on the primary power supply during alarm conditions.

Secondary Load Requirements 2.27 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.065 A	x	Required Standby Time	
		24 hours	1.56
Secondary Alarm Load 3.939 A	x	Required Alarm Time (hours)	
		0.084 hours	0.33
Total Secondary Load			1.89
Derating factor			x 1.2
Secondary Load Requirements			2.27

AH

Battery Selection 7 Amp Hours

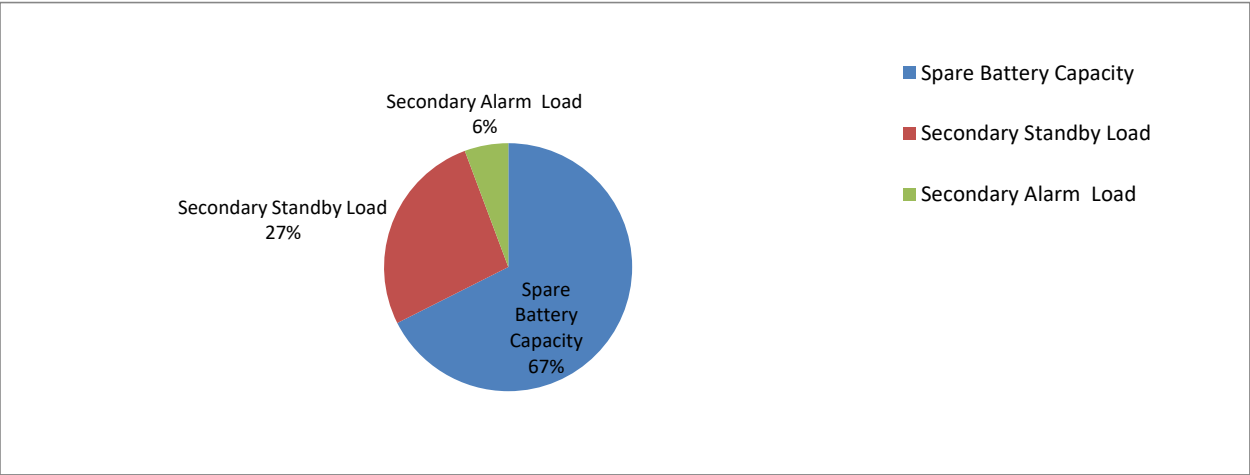
Select batteries from the list below.

7 AH BAT-1270 Battery (12 volt)

- Two Four (two 12VDC sets in parallel)

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	4.73	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	1.87	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.40	Secondary Alarm Load (AH) * Derating Factor

DAA2-7525 Digital Audio Amplifier #1

Protected Premises: <u>Motherhouse Senior Housing</u>	Date: <u>7/24/20017</u>
Address: <u>605 Stevens Avenue</u>	
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Prepared By: <u>Norris Inc.</u> Phone: <u>207-883-3473</u>	
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City: <u>South Portland</u>	State: <u>ME</u> Zip: <u>04106</u>

AC Branch Current Requirements

2.82 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Secondary Load Requirements

12.86 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.400 A	x	Required Standby Time	
		24 hours	9.60
Secondary Alarm Load 4.468 A	x	Required Alarm Time (hours)	
		0.250 hours	1.12
Total Secondary Load			10.72
Derating factor			x 1.2
Secondary Load Requirements			12.86 AH

Battery Selection

18 Amp Hours

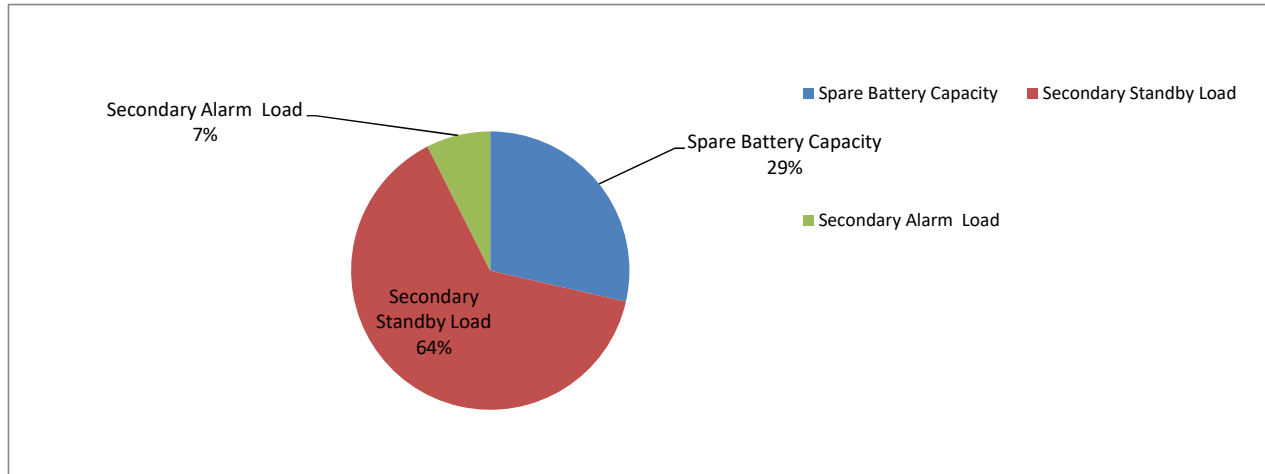
Select batteries from the list below.

18 AH BAT-12180 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-26 or other external battery box
2. Selected battery size meets secondary load requirements.
3. The selected batteries (18AH) are within the charger range of this power supply (12-55AH).

Spare Battery Capacity	5.14	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	11.52	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	1.34	Secondary Alarm Load (AH) * Derating Factor

DAA2-7525 Digital Audio Amplifier #2

Protected Premises: <u>Motherhouse Senior Housing</u>	Date: <u>7/24/20017</u>
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City: <u>South Portland</u>	State: <u>ME</u> Zip: <u>04106</u>

AC Branch Current Requirements

2.82 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Secondary Load Requirements

12.67 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.400 A	x	Required Standby Time	
		24 hours	9.60
Secondary Alarm Load 3.828 A	x	Required Alarm Time (hours)	
		0.250 hours	0.96
Total Secondary Load			10.56
Derating factor			x 1.2
Secondary Load Requirements			12.67

AH

Battery Selection

18 Amp Hours

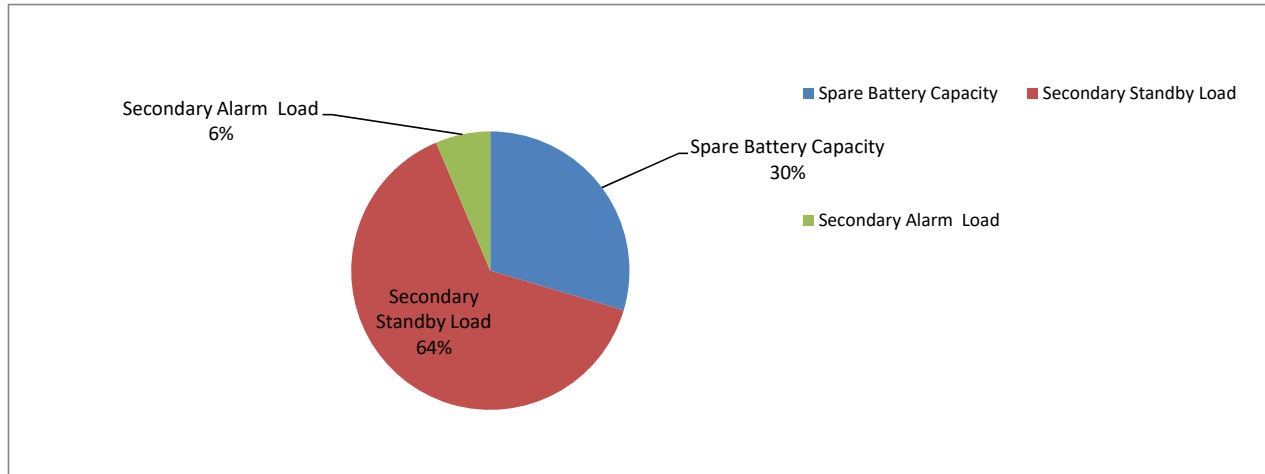
Select batteries from the list below.

18 AH BAT-12180 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-26 or other external battery box
2. Selected battery size meets secondary load requirements.
3. The selected batteries (18AH) are within the charger range of this power supply (12-55AH).

Spare Battery Capacity	5.33	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	11.52	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	1.15	Secondary Alarm Load (AH) * Derating Factor

DAA2-5025/DAA2-5070 Digital Audio Amplifier #3

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Prepared By: <u>Norris Inc.</u>	Phone: <u>207-883-3473</u>
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AC Branch Current Requirements

2.05 AMPS @ 120 VAC

Current required by source to power the fire alarm system.

Secondary Load Requirements

0.30 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load 0.000 A	x	Required Standby Time 24 hours	0.00
Secondary Alarm Load 0.992 A	x	Required Alarm Time (hours) 0.250 hours	0.25
Total Secondary Load			0.25
Derating factor			x 1.2
Secondary Load Requirements			0.30 AH

Battery Selection

12 Amp Hours

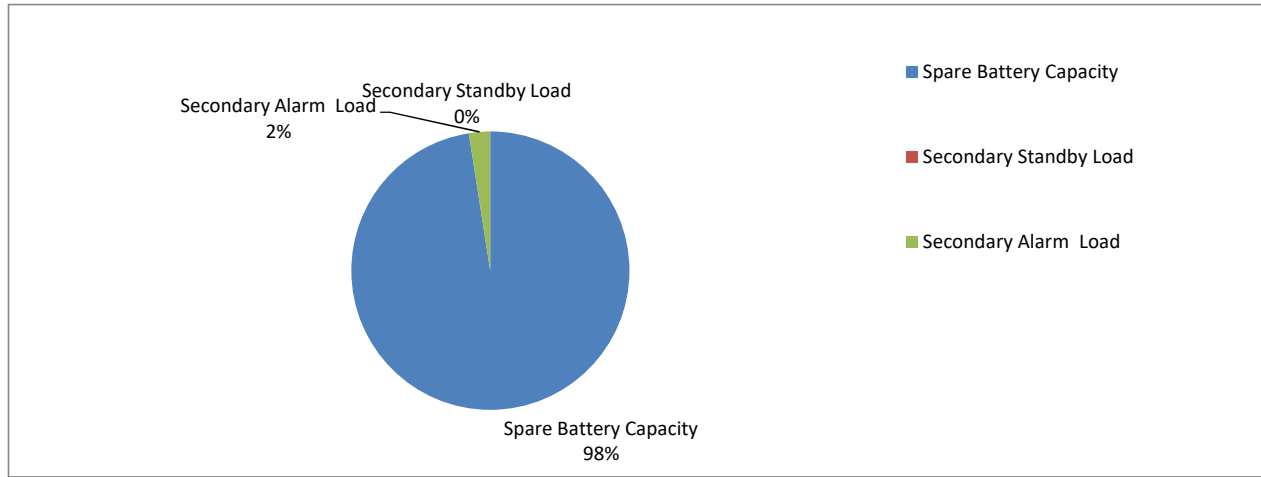
Select batteries from the list below.

12 AH BAT-12120 Battery (12 volt)

- Two Four (two 12VDC sets in parallel)

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 (12AH) are within the charger range of this power supply (12-200AH).

Spare Battery Capacity	11.70	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	0.00	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.30	Secondary Alarm Load (AH) * Derating Factor