



System Current Draw - FCPS-24s6

Total Current	
C1	0.091 A
C2	0.431 A
C3	0.065 A

Select devices using the "Qty" column.

Use yellow cells to enter quantities and current values.

To show only selected devices, select "Show Selected Devices".

To clear selected devices, select "Clear Selections".

Device	C1 - Primary Non-Alarm				C2 - Primary Alarm			C3 - Secondary Non-Alarm					
	Qty		Draw	Non-Alarm	Qty	Draw	Alarm	Qty	Draw	Non-Alarm			
FCPS-24S6 Main Circuit Board	1	x	0.09100	0.09100	1	x	0.14500	0.14500	1	x	0.06500	0.06500	
HSR15	1	x	0.00000	0.00000	1	x	0.08200	0.08200	1	x	0.00000	0.00000	
HSR30	2	x	0.00000	0.00000	2	x	0.10200	0.20400	2	x	0.00000	0.00000	
Total Non-Alarm Load:				0.091	Total Alarm Load:			0.431	Total Standby Load:				0.065



System Power Requirements

FCPS-24s6 Power Supply

Protected Premises: <u>Luther Bonney</u>	Date: <u>1/7/2013</u>
Address: _____	
City: <u>Portland</u>	State: <u>Maine</u> Zip: _____
Prepared By: <u>Norris Inc.</u> Phone: _____	
Address: <u>2257 West Broadway</u> Email: _____	
City: <u>Portland</u>	State: <u>Maine</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 0.43 Amps

Current load on the primary power supply during alarm conditions.

Secondary Load Requirements 2.00 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load	x	Required Standby Time	
0.065 A		24 hours	1.56
Secondary Alarm Load	x	Required Alarm Time (hours)	
0.431 A		0.250 hours	0.11
Total Secondary Load			1.67
Derating factor			x 1.2
Secondary Load Requirements			2.00 AH

Battery Selection 7 Amp Hours

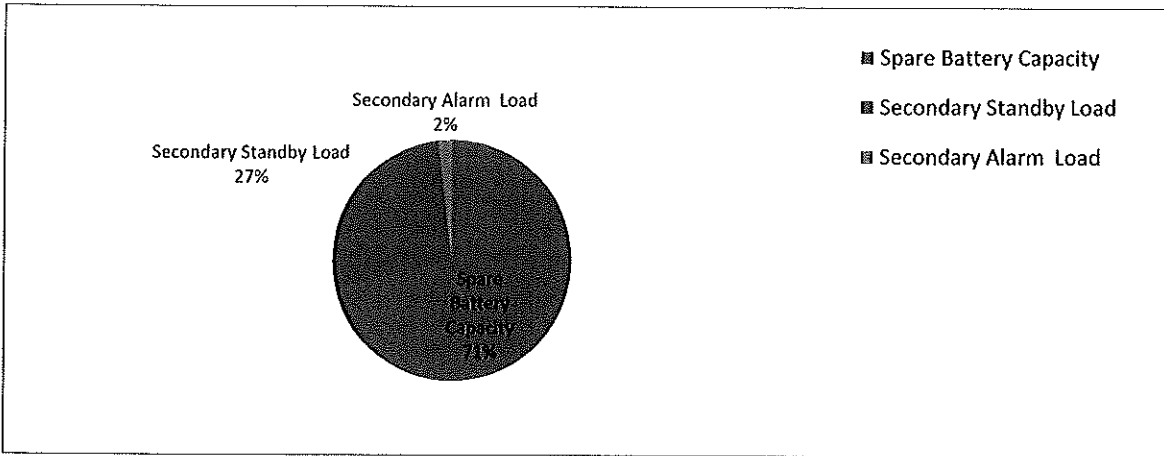
Select batteries from the list below.

7.0 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	5.00	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	1.87	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.13	Secondary Alarm Load (AH) * Derating Factor