

# System Power Requirements

## FCPS-24s8 Power Supply Addition

Protected Premises: <u>Kepware Technologies</u>	Date: <u>10/6/2014</u>
Address: <u>400 Congress Street 2nd Floor</u>	
City: <u>Portland</u> State: <u>Maine</u>	Zip: <u>04101</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>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** 1.64 Amps

Current load on the primary power supply during alarm conditions.

**Secondary Load Requirements** 2.04 Amp Hours

Total Secondary Load from the calculation table below.

Current Draw		Time (hours)	Total (AH)
<b>Secondary Standby Load</b> 0.065 A	x	Required Standby Time	
		24 hours	1.56
<b>Secondary Alarm Load</b> 1.640 A	x	Required Alarm Time (hours)	
		0.084 hours	0.14
Total Secondary Load			1.70
Derating factor			x 1.2
<b>Secondary Load Requirements</b>			<b>2.04</b>

AH

**Battery Selection** 7 Amp Hours

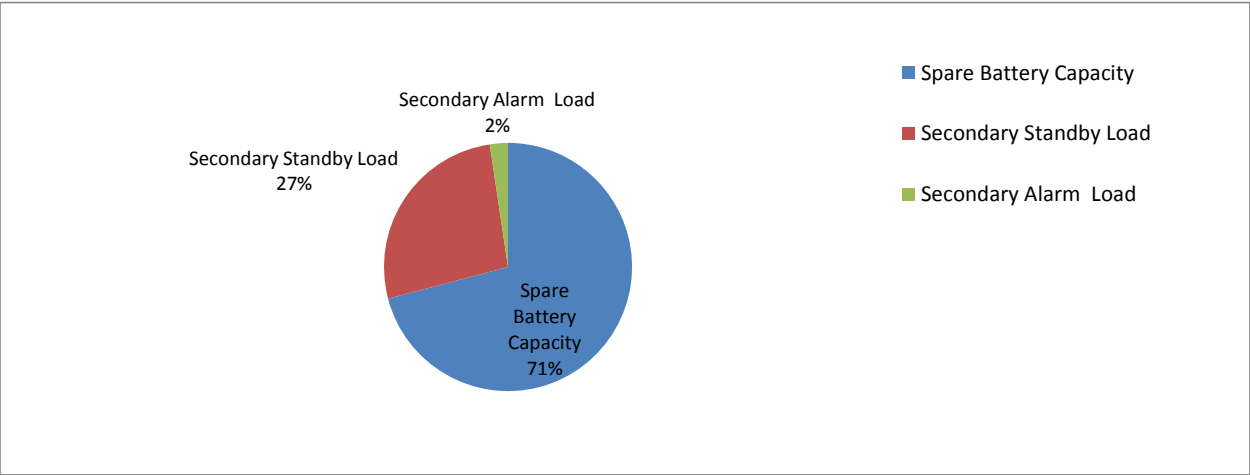
Select batteries from the list below.

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	4.96	Battery Selection (AH) - Secondary Load Requirements (AH)
Secondary Standby Load	1.87	Secondary Standby Load (AH) * Derating Factor
Secondary Alarm Load	0.17	Secondary Alarm Load (AH) * Derating Factor