

FL-PS10 Battery Calculation

Secondary Power Source Requirements

Device Type	Standby Current (amps)				Secondary Alarm Current (amps)					
	Qty		Current Draw	Total	Qty		Current Draw	Total		
Main Circuit Board										
Choose EOLR used ↓										
4.7k	1	X	0.1560	=	0.1560	1	X	0.1850	=	0.1850
Main Circuit Board with ZNAC-PS Class A card	0	X	0.1490	=	0.0000	0	X	0.1590	=	0.0000
NAC / Output # 1	1	X	0.0000	=	0.0000	1	X	1.4340	=	1.4340
NAC / Output # 2	1	X	0.0000	=	0.0000	1	X	0.6640	=	0.6640
NAC / Output # 3	1	X	0.0000	=	0.0000	1	X	0.6640	=	0.6640
NAC / Output # 4	1	X	0.0000	=	0.0000	1	X	0.6640	=	0.6640
NAC / Output # 5	1	X	0.0000	=	0.0000	1	X	0.6640	=	0.6640
NAC / Output # 6	1	X	0.0000	=	0.0000	1	X	0.0000	=	0.0000
NAC / Output # 7	1	X	0.0000	=	0.0000	1	X	0.0000	=	0.0000
Total Standby Load					0.1560	Total Alarm Load				4.2750

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Note 1: You are **fully responsible for verifying these calculations.**

Note 2: You only need to make entries in the **yellow** cells

Calculation in Total Sheet

		Required Standby Time in Hours				
		24 Hours				
Standby Load Current (Amps)	0.1560 Amps	X	24	=	3.744 AH	
		Required Alarm Time in Hours				
		15 Minutes				
Alarm Load Current (Amps)	4.2750 Amps	X	0.25	=	1.069 AH	
Total Current Load					4.81 AH	
		*Multiply by the Derating Factor		1.2	=	x 1.20
Total Ampere Hours Required					5.78 AH	

Recommended Batteries: BAT-1270 - 7AH Batteries

* Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

FL-PS10 Circuit Detail

NAC / Output # 1

Device	Qty		Non-Alarm Draw	Total	Qty		Alarm Draw	Total		
P2RK	6	x	0.000000	=	0.000000	6	x	0.212000	=	1.272000
P2RL-LF	1	x	0.000000	=	0.000000	1	x	0.162000	=	0.162000

