Note 1: You are **fully responsible for verifying these calculations**.
Note 2: Use the **yellow** cells to enter values and to use the dropdowns.

FIRE-LITE ALARMS by Honeywell

MS-10UD-7 Battery Calculation

Secondary Power Source Requirements

	Secondary Non-Alarm Current (amps)					Secondary Alarm Current (amps)				
Device Type	**Qty**		**Current Draw**		**Total**	**Qty**		**Current Draw**		**Total**
1. System										
Main Circuit Board	1	x	0.127000	=	0.127000	1	x	0.265000	=	0.265000
4XTMF	0	x	0.005000	=		0	x	0.011000	=	
CAC-5X	0	x	0.001000	=		0	x	0.001000	=	
IPDACT-2	0	x	0.093000	=		0	x	0.136000	=	
IPDACT-2UD	0	x	0.098000	=		0	x	0.155000	=	
2. Annunciators										
ANN-80	0	x	0.015000	=		0	x	0.040000	=	
ANN-RLY	0	x	0.015000	=		0	x	0.075000	=	
ANN-I/O	0	x	0.035000	=		0	x	0.200000	=	
ANN-I/O LEDs	0	x	0.000000	=		0	x	0.010000	=	
ANN-S/PG	0	x	0.045000	=		0	x	0.045000	=	
ANN-(R)LED	0	x	0.028000	=		0	x	0.068000	=	
3. Conventional Detection										
Two-Wire Detector Heads	0	x	0.000000	=						
Four-Wire Detector Heads	0	x	0.000000	=						
Number of IDC's Used Minus 1						0	x	0.040000	=	
EOLR-1	0	x	0.020000	=		0	x	0.020000	=	
4. Other Devices										
Miscellaneous Device 1	0	x	0.000000	=		0	x	0.000000	=	
Miscellaneous Device 2	0	x	0.000000	=		0	x	0.000000	=	
Miscellaneous Device 3	0	x	0.000000	=		0	x	0.000000	=	
Miscellaneous Device 4	0	x	0.000000	=		0	x	0.000000	=	
Miscellaneous Device 5	0	x	0.000000	=		0	x	0.000000	=	
5. Notification Appliances										
NAC 1						0	x	0.000000	=	
NAC 2						0	x	0.000000	=	
NAC 3						0	x	0.000000	=	
NAC 4						0	x	0.000000	=	
Current Draw from TB9 (nonalam)	0	x	0.000000	=		0	x	0.000000	=	
			Total Standby Load		**0.127000**			**Total Alarm Load**		**0.265000**

FIRE-LITE ALARMS by Honeywell

MS-10UD-7 Battery Calculation

Calculation in Total Sheet

		Required Standby Time in Hours			
		24 Hours			
Standby Load Current	**0.12700 Amps**	x	24	=	3.048 AH
		Required Alarm Time in Minutes			
		5 Minutes			
Alarm Load Current (Amps)	**0.26500 Amps**	x	0.084	=	0.022 AH
			Total Current Load		**3.070 AH**
	Multiply by the Derating Factor		1.2	=	x 1.20
			Total Ampere Hours Required		**3.68 AH**

Recommended Batteries:	**BAT-1270 - 7AH Batteries**

Battery Check
The batteries can be charged by the MS-10UD-7 Charger.
The batteries can be housed in the MS-10UD-7 Cabinet.

Current Draw Check
NAC#1 current is within the limitations of the circuit.
NAC#2 current is within the limitations of the circuit.
NAC#3 current is within the limitations of the circuit.
NAC#4 current is within the limitations of the circuit.
MS-10UD-7 Control Panel: The output current is within the panel's limitations.