



MS-25 Rev.2 Battery Calculation

Secondary Power Source Requirements

Device Type	Standby Current (amps)				Secondary Alarm Current (amps)				
	Qty	x	Current Draw	= Total	Qty	x	Current Draw	= Total	
1. Control Panel									
Main Circuit Board	1	x	0.135000	= 0.135000	1	x	0.220000	= 0.220000	
2. ANN-BUS Devices									
ANN-80(-W)	0	x	0.037000	=	0	x	0.040000	=	
3. Addressable SLC Devices									
HFS-P	0	x	0.000270	=	0	x	0.006500	=	
HFS-PT	0	x	0.000270	=	0	x	0.006500	=	
HFS-D	0	x	0.000270	=	0	x	0.006500	=	
HFS-T	0	x	0.000270	=	0	x	0.006500	=	
HFS-MM	0	x	0.000375	=	0	x	0.000375	=	
HFS-MR	0	x	0.000255	=	0	x	0.000255	=	
BG-12LX	0	x	0.000375	=	0	x	0.000375	=	
SD355	0	x	0.000270	=	0	x	0.006500	=	
SD355T	0	x	0.000270	=	0	x	0.006500	=	
H355	0	x	0.000270	=	0	x	0.006500	=	
D355PL	0	x	0.000270	=	0	x	0.006500	=	
MMF-301	0	x	0.000375	=	0	x	0.000375	=	
CRF-300	0	x	0.000375	=	0	x	0.000375	=	
I300	0	x	0.000450	=	0	x	0.000450	=	
Total SLC Devices	0								
3. Auxiliary Devices									
Auxiliary Device 1	0	x	0.000000	=	0	x	0.000000	=	
Auxiliary Device 2	0	x	0.000000	=	0	x	0.000000	=	
Auxiliary Device 3	0	x	0.000000	=	0	x	0.000000	=	
Auxiliary Device 4	0	x	0.000000	=	0	x	0.000000	=	
Auxiliary Device 5	0	x	0.000000	=	0	x	0.000000	=	
4. Notification Appliance Circuits									
NAC 1					0	x	0.000000	=	
NAC 2					0	x	0.000000	=	
Total Standby Load				0.135000	Total Alarm Load				0.220000



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Calculation in Total Sheet

		Required Standby Time in Hours	
		24 Hours	
Standby Load Current	0.13500 Amps	x	24 = 3.240 AH
		Required Alarm Time in Minutes	
		5 Minutes	
Alarm Load Current (Amps)	0.22000 Amps	x	0.084 = 0.018 AH
Total Current Load			3.258 AH
Multiply by the Derating Factor		1.2	= x 1.20
Total Ampere Hours Required			3.91 AH

Recommended Batteries: BAT-1270 - 7AH Batteries

Battery Check

The batteries can be charged by the MS-25 Charger.

The batteries can be housed in the MS-25 Cabinet.

Current Draw Check

NAC#1 current is within the limitations of the circuit.

NAC#2 current is within the limitations of the circuit.

MS-25 Control Panel:

The output current is within the panel's limitations.