

MS-5024UD Battery Calculation

Since the current draws listed here can be edited, the user is fully responsible for verifying these calculations.

Entries only to be made in the Yellow cell locations

Regulated Load in Standby

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Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main Circuit Board	1	X	0.1	=	0.1
ADM-24 (1 max.)		X	0.006	=	0
RZA-5F (1 max.)		X	0	=	0
CAC-5F (1 max.)		X	0	=	0
RM-5F (Relay Card 1 Max.)		X	0	=	0
4-Wire Smoke Detectors		X		=	0
Power Supervision Relays		X	0.025	=	0
2-Wire Smoke Detectors		X		=	0
Additional Current Draw from TB-4		X		=	0
SUM COLUMN FOR STANDBY LOAD			0.1	=	AMPS

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Regulated Load in **ALARM**

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Device Type	Number of Devices		Current (Amps)		Total Current (Amps)
Main Circuit Board	1	X	0.17	=	0.17
ADM-24 (1 max.)	0	X	0.006	=	0
RZA-5F (1 max.)	0	X	0.046	=	0
CAC-5F (1 max.)	0	X	0	=	0
RM-5F (Relay Card 1 Max.)	0	X	0.08	=	0
4-Wire Smoke Detectors	0	X		=	0
Power Supervision Relays	0	X	0.025	=	0
Notification Appliances	1	X		=	0
Additional Current Draw		X		=	0
From TB-2 AND TB-4 (Alarm Current)					
SUM COLUMN FOR LOAD IN ALARM			0.17	=	AMPS

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Calculation in Total Sheet

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Use the total standby and alarm load currents calculated in tables A-2A and A-2B for the following battery calculations

Standby Load Current (Amps)	0.1	X	Required Standby Time in Hours (24 or 60 Hrs.)		
			24	=	2.4
Alarm Load Current (Amps)	0.17	X	Required Alarm Time in Hours (5 minutes = 0.084)		
			0.084	=	0.01428
Add Standby and Alarm Load for Required Ampere Hour Battery					2.41428
Multiply by the Derating Factor of 1.2					
Total Ampere Hours Required					2.897136

Battery Check

The batteries can be housed in the panel cabinet
The panel is capable of charging the required batteries

Current Draw Check

MS-5024UD without XRM-24	The total NACoutput current is within the limitations of the panel
MS-5024UD WITH XRM-24	The total NACoutput current is within the limitations of the panel