

# MS-9600LS 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	1	x	0.120000	= 0.12000	1	x	0.170000	= 0.17000
DACT-UD2	0	x	0.100000	=	0	x	0.132000	=
SLC-2LS Expander Module	0	x	0.085000	=	0	x	0.085000	=
4XTMF	0	x	0.005000	=	0	x	0.011000	=
IPDACT-2	0	x	0.093000	=	0	x	0.136000	=
IPDACT-2/2UD	0	x	0.098000	=	0	x	0.155000	=
<b>ANN-BUS Devices</b>								
ANN-80(-W)	0	x	0.015000	=	0	x	0.040000	=
ANN-LED	0	x	0.028000	=	0	x	0.068000	=
ANN-RLED	0	x	0.028000	=	0	x	0.068000	=
ANN-RLY	0	x	0.015000	=	0	x	0.075000	=
ANN-I/O	0	x	0.035000	=	0	x	0.200000	=
ANN-S/PG	0	x	0.045000	=	0	x	0.045000	=
<b>ACS Annunciators</b>								
ACM-8RF	0	x	0.030000	=	0	x	0.158000	=
ACM-16ATF	0	x	0.040000	=	0	x	0.056000	=
ACM-32AF	0	x	0.040000	=	0	x	0.056000	=
AEM-16ATF	0	x	0.002000	=	0	x	0.018000	=
AEM-32AF	0	x	0.002000	=	0	x	0.018000	=
AFM-16ATF	0	x	0.040000	=	0	x	0.056000	=
AFM-32AF	0	x	0.040000	=	0	x	0.056000	=
AFM-16AF	0	x	0.025000	=	0	x	0.065000	=
LDM-32F	0	x	0.040000	=	0	x	0.056000	=
LDM-E32F	0	x	0.002000	=	0	x	0.018000	=
LCD-80F	0	x	0.025000	=	0	x	0.064000	=
<b>Resettable Power</b>								
4-wire Detector Heads	0	x	0.000000	=	0	x	0.000000	=
<b>Addressable Devices</b>								
BEAM355	0	x	0.002000	=				
BEAM355S	0	x	0.002000	=				
BEAM1224	0	x	0.017000	=				
CP355	0	x	0.000300	=				
SD355	0	x	0.000300	=				
SD355T	0	x	0.000300	=				
AD355	0	x	0.000300	=				
H355	0	x	0.000300	=				
H355R	0	x	0.000300	=				
H355HT	0	x	0.000300	=				
D350P	0	x	0.000300	=				
D350RP	0	x	0.000300	=				
D350PL	0	x	0.000300	=				
D350RPL	0	x	0.000300	=				
D355PL	0	x	0.000300	=				
MMF-300	0	x	0.000400	=				
MMF-300-10	0	x	0.003500	=				
MDF-300	0	x	0.000750	=				
MMF-301	0	x	0.000375	=				
MMF-302	0	x	0.000270	=				
MMF-302-6	0	x	0.002000	=				
BG-12LX	0	x	0.000230	=				
CMF-300	0	x	0.000390	=				

CMF-300-6	0	x	0.002250	=						
CRF-300	0	x	0.000270	=						
CRF-300-6	0	x	0.001450	=						
I300	0	x	0.000400	=						
B501BH-2	0	x	0.001000	=						
B501BHT-2	0	x	0.001000	=						
B224RB	0	x	0.000500	=						
B224BI	0	x	0.000450	=						
B200SR	0	x	0.000500	=						
	Maximum alarm draw for Addressable devices (SLC 1)							0.40000		
	Maximum alarm draw for Addressable devices (SLC 2)							0.00000		
EOLR-1	0	x	0.020000	=		0	x	0.020000	=	
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	=	
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 TB3 (non-alarm)			0.000000	=				0.000000	=	
Sum each column for totals	<b>Total Standby Current</b>			<b>0.12000</b>	<b>Total Alarm Current</b>			<b>0.57000</b>		

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Note: You can edit all current draws and are **fully responsible for verifying** these calculations. Only enter values in **yellow** cells.

		<b>Required Standby Time in Hours</b>			
		24 Hours			
<b>Standby Load Current (Amps)</b>	<b>0.120 A</b>	x	24	=	2.880 AH
		<b>Required Alarm Time in Hours</b>			
		5 Minutes			
<b>Alarm Load Current (Amps)</b>	<b>0.570 A</b>	x	0.084	=	0.048 AH
Standby and Alarm Load Subtotal				=	2.928 AH
Derating Factor				=	x 1.2
<b>Total Ampere Hours Required</b>				<b>=</b>	<b>3.513 AH</b>

<b>Recommended Batteries:</b>	<b>BAT-1270 - 7AH Batteries</b>
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<b>Battery Check</b>	
The batteries can be charged by the MS-9600LS Charger.	
The batteries can be housed in the MS-9600LS Cabinet.	

<b>Current Draw Check</b>	
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.	
The standby current is within the limitations of the panel.	
The alarm current is within output limitations of the panel.	