


## ES-50X Battery Calculation

### Secondary Power Source Requirements

Device	Standby Current (amps)					Secondary Alarm Current (amps)				
	Qty		Current Draw	=	Total	Qty		Current Draw	=	Total
Main Circuit Board	1	x	0.141000	=	0.141000	1	x	0.257000	=	0.257000
IPOTS-COM Communicator	1	x	0.040000	=	0.040000	1	x	0.041000	=	0.04100
4XTMF	0	x	0.005000	=		0	x	0.011000	=	
EOLR-1	0	x	0.020000	=		0	x	0.020000	=	
CELL-MOD-FL / CELL-CAB	1	x	0.055000	=	0.055000	1	x	0.100000	=	0.100000
<b>ANN-BUS Devices</b>										
ANN-SEC Card	0	x	0.003000	=		0	x	0.003000	=	
ANN-80(-W)	1	x	0.015000	=	0.015000	1	x	0.040000	=	0.040000
ANN-100	0	x	0.020000	=		0	x	0.025000	=	
ANN-(R)LED	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-I/O LED	0	x	0.000000	=		0	x	0.010000	=	
ANN-S/PG	0	x	0.045000	=		0	x	0.045000	=	
<b>Addressable Devices</b>										
BEAM355	0	x	0.002000	=						
BEAM355S	0	x	0.002000	=						
CP355	0	x	0.000300	=						
SD365CO	0	x	0.002000	=						
SD355CO	0	x	0.000300	=						
SD355	0	x	0.000300	=						
SD365	2	x	0.000200	=	0.000400					
SD355T	0	x	0.000300	=						
SD365T	0	x	0.000200	=						
H355	0	x	0.000300	=						
H365	0	x	0.000200	=						
H355HT	0	x	0.000300	=						
H365HT	0	x	0.000200	=						
H350R	0	x	0.000300	=						
H355R	0	x	0.000300	=						
H365R	0	x	0.000200	=						
D350RPL	0	x	0.000300	=						
D355PL	0	x	0.000300	=						
MMF-300	0	x	0.000375	=						
MMF-300-10	0	x	0.003500	=						
MDF-300	0	x	0.000750	=						
MMF-301	4	x	0.000350	=	0.001400					
MMF-302	0	x	0.000270	=						
MMF-302-6	0	x	0.002000	=						
BG-12LX	1	x	0.000375	=	0.000375					
CMF-300	0	x	0.000390	=						
CMF-300-6	0	x	0.002250	=						
CRF-300	0	x	0.000255	=						
CRF-300-6	0	x	0.001450	=						
CDRM-300	0	x	0.001300	=						
I300	0	x	0.000400	=						

ISO-6	0	x	0.002700	=				
B501BH-2	0	x	0.001000	=				
B501BHT-2	0	x	0.001000	=				
B224RB	0	x	0.000500	=				
B224BI	0	x	0.000450	=				
W-GATE	0	x	0.024000	=				
Maximum alarm draw for all Addressable devices ----->								0.20000
<b>Resettable Power</b>								
4-Wire Smoke Detectors	0	x	0.000000	=		0	x	0.000000
<b>SWIFT Wireless</b>								
W-GATE	0	x	0.040000	=		0	x	0.040000
<b>Auxiliary Power</b>								
CMF-300 (Aux. Power)	0	x	0.001700	=		0	x	0.007000
CMF-300-6 (Aux. Power)	0	x	0.008000	=		0	x	0.020000
MMF-302 (Aux. Power)	0	x	0.012000	=		0	x	0.090000
MMF-302-6 (Aux. Power)	0	x	0.050000	=		0	x	0.270000
B200SR (Aux. Power)	0	x	0.000500	=		0	x	0.035000
B200SR-LF (Aux. Power)	0	x	0.001000	=		0	x	0.125000
<b>Miscellaneous Devices</b>								
	0	x	0.000000	=		0	x	0.000000
	0	x	0.000000	=		0	x	0.000000
	0	x	0.000000	=		0	x	0.000000
	0	x	0.000000	=		0	x	0.000000
	0	x	0.000000	=		0	x	0.000000
<b>Output Circuits</b>								
NAC/Output #1			0.000000	=		1	x	0.557000
NAC/Output #2			0.000000	=		0	x	0.639000
FCPS (remote Sync)	0	x	0.000000	=		0	x	0.021700
<b>Total Standby Load</b>			<b>0.253150</b>		<b>Total Alarm Load</b>			<b>0.995000</b>

		<b>ES-50X Battery Calculation</b>			
Calculation in Total Sheet					
		<b>Required Standby Time in Hours</b>			
		24 Hours			
<b>Total Standby Current</b>	<b>0.2532 Amps</b>	x	24	=	6.077 AH
		<b>Required Alarm Time in Minutes</b>			
		5 Minutes			
<b>Total Alarm Load</b>	<b>0.9950 Amps</b>	x	0.084	=	0.084 AH
<b>Total Current Load</b>					<b>6.161 AH</b>
Multiply by the Derating Factor			1.2	=	x 1.20
<b>Total Ampere Hours Required</b>					<b>7.39 AH</b>