

FCPS-24 POWER CALCULATIONS

Table 5-1 LOAD IN STANDBY

Device Type	# of Devices		Current (Amps)	=	Total Current (Amps)
Main PC Board	1	x	0.048	=	0.048
Bells	2	x	0.000	=	0.000
Horns	5	x	0.000	=	0.000
Strobes	5	x	0.000	=	<u>0.000</u>
Sum Column for Standby Load				=	<u>0.048</u>

Table 5-2 LOAD IN ALARM

Device Type	# of Devices		Current (Amps)	=	Total Current (Amps)
CV-98 Actuator	0	x	1.500	=	0.000
Bells	2	x	0.030	=	0.060
Horns	5	x	0.036	=	0.180
Strobes	5	x	0.450	=	<u>2.250</u>
Sum Column for Alarm Load				=	<u>2.490</u>

Table 5-3 SECONDARY POWER SOURCE CALCULATIONS

Standby Load Current (Amps)		Required Standby Time in Hours (24 or 60 Hours)		Total Amp Hours
0.048	x	24	=	1.152
Alarm Load Current (Amps)		Required Alarm Time in Hours (5 min.=0.084, 10 min.=0.168)		
2.490	x	0.168	=	<u>0.41832</u>
Sum Standby and Alarm Load for Required Amp Hours				= 1.57032
Muiltiply Required Amp Hours by Derating Factor				= 1.2
Total Amp Hours (AH) Required				= <u>1.9</u>

FCPS-24 POWER CALCULATIONS

Table 5-1 LOAD IN STANDBY

Device Type	# of Devices		Current (Amps)	=	Total Current (Amps)
Main PC Board	1	x	0.048	=	0.048
Bells	4	x	0.000	=	0.000
Horns	4	x	0.000	=	0.000
Strobes	5	x	0.000	=	<u>0.000</u>
Sum Column for Standby Load				=	<u>0.048</u>

Table 5-2 LOAD IN ALARM

Device Type	# of Devices		Current (Amps)	=	Total Current (Amps)
CV-98 Actuator	0	x	1.500	=	0.000
Bells	4	x	0.030	=	0.120
Horns	4	x	0.036	=	0.144
Strobes	5	x	0.450	=	<u>2.250</u>
Sum Column for Alarm Load				=	<u>2.514</u>

Table 5-3 SECONDARY POWER SOURCE CALCULATIONS

Standby Load Current (Amps)		Required Standby Time in Hours (24 or 60 Hours)		Total Amp Hours
0.048	x	60	=	2.88
Alarm Load Current (Amps)		Required Alarm Time in Hours (5 min.=0.084, 10 min.=0.168)		
2.514	x	0.168	=	<u>0.422352</u>
Sum Standby and Alarm Load for Required Amp Hours				= 3.302352
Muiltiply Required Amp Hours by Derating Factor				= 1.2
Total Amp Hours (AH) Required				= <u>4</u>