


	x	0.000000	=		x	0.000000	=		
	x	0.000000	=		x	0.000000	=		
Total Standby Load				0.000000	Total Alarm Load				0.739000

NAC / Output # 4										
Device	Qty		Non-Alarm Draw	Total	Qty		Alarm Draw	Total		
P2WK @ 15 Candela	1	x	0.000000	=	0.000000	1	x	0.091000	=	0.091000
HWL-LF	6	x	0.000000	=	0.000000	6	x	0.108000	=	0.648000
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load				0.739000	

NAC / Output # 5										
Device	Qty		Non-Alarm Draw	Total	Qty		Alarm Draw	Total		
P2WK @ 15 Candela	1	x	0.000000	=	0.000000	1	x	0.091000	=	0.091000
P2WH-LF @ 185 Candela	3	x	0.000000	=	0.000000	3	x	0.417000	=	1.251000
SWL @ 15 Candela	2	x	0.000000	=	0.000000	2	x	0.043000	=	0.086000
HWL-LF	4	x	0.000000	=	0.000000	4	x	0.108000	=	0.432000
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load				1.860000	

NAC / Output # 6										
Device	Qty		Non-Alarm Draw	Total	Qty		Alarm Draw	Total		
P2WK @ 15 Candela	1	x	0.000000	=	0.000000	1	x	0.091000	=	0.091000
P2WH-LF @ 185 Candela	4	x	0.000000	=	0.000000	4	x	0.417000	=	1.668000
SWL @ 15 Candela	2	x	0.000000	=	0.000000	2	x	0.043000	=	0.086000
HWL-LF	3	x	0.000000	=	0.000000	3	x	0.108000	=	0.324000
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load				2.169000	

NAC / Output # 7										
Device	Qty		Non-Alarm Draw	Total	Qty		Alarm Draw	Total		
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load				0.000000	

	P2	SK-PS10 EOL Voltage Drop					
	Starting Voltage	20.4 Volts					
	Minimum Voltage @ EOL	16 Volts					
	Voltage Drop Warning %	10.00%					
	Current Draw	Wire Type	Resistance	Length	Qual Resist	Voltage @ EOL	Percent Drop
Circuit Name	Amps	AWG	Ohms/1000 ft.	Feet (One Way)	Ohms	Volts	Percent
NAC / Output # 1	2.169	#14 Solid	3.07	100	0.61	19.07	6.53%
NAC / Output # 2	0.847	#14 Solid	3.07	100	0.61	19.88	2.55%
NAC / Output # 3	0.739	#14 Solid	3.07	125	0.77	19.83	2.78%
NAC / Output # 4	0.739	#14 Solid	3.07	125	0.77	19.83	2.78%
NAC / Output # 5	1.860	#14 Solid	3.07	150	0.92	18.69	8.40%
NAC / Output # 6	2.169	#14 Solid	3.07	150	0.92	18.40	9.79%
NAC / Output # 7	0.000	#14 Solid	3.07	0	0.00	20.40	0.00%


	x	0.000000	=		x	0.000000	=		
	x	0.000000	=		x	0.000000	=		
Total Standby Load				0.000000	Total Alarm Load				0.739000


NAC / Output # 4									
Device	Qty		Non-Alarm Draw	Total	Qty		Alarm Draw	Total	
P2WK @ 15 Candela	1	x	0.000000	= 0.000000	1	x	0.091000	= 0.091000	
HWL-LF	6	x	0.000000	= 0.000000	6	x	0.108000	= 0.648000	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load				0.739000


NAC / Output # 5									
Device	Qty		Non-Alarm Draw	Total	Qty		Alarm Draw	Total	
P2WK @ 15 Candela	1	x	0.000000	= 0.000000	1	x	0.091000	= 0.091000	
HWL-LF	7	x	0.000000	= 0.000000	7	x	0.108000	= 0.756000	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load				0.847000

NAC / Output # 6									
Device	Qty		Non-Alarm Draw	Total	Qty		Alarm Draw	Total	
P2WK @ 15 Candela	1	x	0.000000	= 0.000000	1	x	0.091000	= 0.091000	
HWL-LF	7	x	0.000000	= 0.000000	7	x	0.108000	= 0.756000	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load				0.847000

NAC / Output # 7									
Device	Qty		Non-Alarm Draw	Total	Qty		Alarm Draw	Total	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
		x	0.000000	=		x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load				0.000000


	P3	SK-PS10 EOL Voltage Drop					
	Starting Voltage	20.4 Volts					
	Minimum Voltage @ EOL	16 Volts					
	Voltage Drop Warning %	10.00%					
	Current Draw	Wire Type	Resistance	Length	Qual Resist	Voltage @ EOL	Percent Drop
Circuit Name	Amps	AWG	Ohms/1000 ft.	Feet (One Way)	Ohms	Volts	Percent
NAC / Output # 1	0.847	#14 Solid	3.07	125	0.77	19.75	3.19%
NAC / Output # 2	0.847	#14 Solid	3.07	125	0.77	19.75	3.19%
NAC / Output # 3	0.739	#14 Solid	3.07	150	0.92	19.72	3.34%
NAC / Output # 4	0.739	#14 Solid	3.07	150	0.92	19.72	3.34%
NAC / Output # 5	0.847	#14 Solid	3.07	175	1.07	19.49	4.46%
NAC / Output # 6	0.847	#14 Solid	3.07	175	1.07	19.49	4.46%
NAC / Output # 7	0.000	#14 Solid	3.07	0	0.00	20.40	0.00%

	P4		SK-PS10 Battery Calculation							
	Secondary Power Source Requirements									
	Standby Current (amps)			Secondary Alarm Current (amps)						
Device Type	Qty	X	Current Draw	=	Total	Qty	X	Current Draw	=	Total
SK-PS10 Power Module	1	X	0.1560	=	0.1560	1	X	0.1850	=	0.1850
NAC / Output # 1			0.0000	=	0.0000			0.8470	=	0.8470
NAC / Output # 2			0.0000	=	0.0000			0.8470	=	0.8470
NAC / Output # 3			0.0000	=	0.0000			0.7390	=	0.7390
NAC / Output # 4			0.0000	=	0.0000			0.7390	=	0.7390
NAC / Output # 5			0.0000	=	0.0000			0.8470	=	0.8470
NAC / Output # 6			0.0000	=	0.0000			0.8470	=	0.8470
NAC / Output # 7			0.0000	=	0.0000			0.0000	=	0.0000
Total Standby Load					0.1560	Total Alarm Load				
						5.0510				

	P4		SK-PS10 Battery Calculation								
	Note 1: You are fully responsible for verifying these calculations.										
	Note 2: You only need to make entries in the yellow cells										
Calculation in Total Sheet											
						Required Standby Time in Hours					
						24 Hours					
Standby Load Current (Amps)		0.1560 Amps				X	24	=	3.744 AH		
						Required Alarm Time in Hours					
						5 Minutes					
Alarm Load Current (Amps)		5.0510 Amps				X	0.084	=	0.424 AH		
						Total Current Load					
						4.17 AH					
*Multiply by the Derating Factor						1.2					
						x 1.20					
Total Ampere Hours Required						5.00 AH					

Recommended Batteries: **BAT-1270 - 7AH Batteries**

* Derating Factor required to compensate for the non-linear discharge characteristic of a battery.

	P4		SK-PS10 Circuit Detail							
	NAC / Output # 1									
	Device	Qty	X	Non-Alarm Draw	=	Total	Qty	X	Alarm Draw	=
HWL-LF	7	x	0.000000	=	0.000000	7	x	0.108000	=	0.756000
P2WK @ 15 Candela	1	x	0.000000	=	0.000000	1	x	0.091000	=	0.091000
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load					0.000000	Total Alarm Load				
						0.847000				

NAC / Output # 2										
Device	Qty	X	Non-Alarm Draw	=	Total	Qty	X	Alarm Draw	=	Total
HWL-LF	7	x	0.000000	=	0.000000	7	x	0.108000	=	0.756000
P2WK @ 15 Candela	1	x	0.000000	=	0.000000	1	x	0.091000	=	0.091000
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load					0.000000	Total Alarm Load				
						0.847000				

NAC / Output # 3										
Device	Qty	X	Non-Alarm Draw	=	Total	Qty	X	Alarm Draw	=	Total
HWL-LF	6	x	0.000000	=	0.000000	6	x	0.108000	=	0.648000
P2WK @ 15 Candela	1	x	0.000000	=	0.000000	1	x	0.091000	=	0.091000
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load					0.000000	Total Alarm Load				
						0.847000				


	x	0.000000	=		x	0.000000	=
	x	0.000000	=		x	0.000000	=
Total Standby Load				0.000000	Total Alarm Load		0.739000

NAC / Output # 4										
Device	Qty		Non-Alarm Draw	Total	Qty	Alarm Draw	Total			
HWL-LF	6	x	0.000000	=	0.000000	6	x	0.108000	=	0.648000
P2WK @ 15 Candela	1	x	0.000000	=	0.000000	1	x	0.091000	=	0.091000
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load		0.739000			

NAC / Output # 5										
Device	Qty		Non-Alarm Draw	Total	Qty	Alarm Draw	Total			
HWL-LF	7	x	0.000000	=	0.000000	7	x	0.108000	=	0.756000
P2WK @ 15 Candela	1	x	0.000000	=	0.000000	1	x	0.091000	=	0.091000
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load		0.847000			

NAC / Output # 6										
Device	Qty		Non-Alarm Draw	Total	Qty	Alarm Draw	Total			
HWL-LF	7	x	0.000000	=	0.000000	7	x	0.108000	=	0.756000
P2WK @ 15 Candela	1	x	0.000000	=	0.000000	1	x	0.091000	=	0.091000
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load		0.847000			

NAC / Output # 7										
Device	Qty		Non-Alarm Draw	Total	Qty	Alarm Draw	Total			
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
		x	0.000000	=			x	0.000000	=	
Total Standby Load				0.000000	Total Alarm Load		0.000000			

	P4	SK-PS10 EOL Voltage Drop					
	Starting Voltage	20.4 Volts					
	Minimum Voltage @ EOL	16 Volts					
	Voltage Drop Warning %	10.00%					
	Current Draw	Wire Type	Resistance	Length	Qual Resist	Voltage @ EOL	Percent Drop
Circuit Name	Amps	AWG	Ohms/1000 ft.	Feet (One Way)	Ohms	Volts	Percent
NAC / Output # 1	0.847	#14 Solid	3.07	150	0.92	19.62	3.82%
NAC / Output # 2	0.847	#14 Solid	3.07	150	0.92	19.62	3.82%
NAC / Output # 3	0.739	#14 Solid	3.07	175	1.07	19.61	3.89%
NAC / Output # 4	0.739	#14 Solid	3.07	175	1.07	19.61	3.89%
NAC / Output # 5	0.847	#14 Solid	3.07	200	1.23	19.36	5.10%
NAC / Output # 6	0.847	#14 Solid	3.07	200	1.23	19.36	5.10%
NAC / Output # 7	0.000	#14 Solid	3.07	0	0.00	20.40	0.00%