

Christo Power Budget

Team Number: 103  
Project Name: Private use Door automation  
Team Member Names: Christo Jomon Joseph  
Version: 1.0

All Major Components	Component Name	Part Number	Supply Voltage Range	Qty.	Absolute Maximum Current (mA)	Total Current (mA)	Unit
	Voltage Regulator	LM7805CT/NOPB	+5V	1	6	6	mA
	Rotary Encoder	PEC11R-4215F-S0024	+5V	1	10	10	mA
	Setup Button	B3F-1000	+5V	1	1	1	mA
	LED Indicator	WP7113ID	+2V	1	20	20	mA

+5V Power Rail	Component Name	Part Number	Supply	Qty.	Absolute	Total	Unit
	Voltage Regulator	LM7805CT/NOPB	+5V	1	6	6	mA
	Rotary Encoder	PEC11R-4215F-S0024	+5V	1	10	10	mA
	Setup Button	B3F-1000	+5V	1	1	1	mA
	LED Indicator	WP7113ID	+2V	1	20	20	mA

Subtotal						37	mA
Safety Margin						25%	
Total Current Required on +5V Rail						46.25	mA

Regulator	+5V Regulator	LM7805CT/NOPB	+4.75 - 35V	1	1500	1500	mA
	Total Remaining Current Available on +5V Rail					1453.75	mA



