

## Power Budget

**Team Number:** 105

## Project Name: Temperature Equalizing Blinds

**Team Member Names: Keith, Abriana, Don, Tim**

**Version: 1**

All Major Components	Component Name	Part Number	Supply Voltage Range	Qty.	Absolute Maximum Current (mA)	Total Current (mA)	Unit
	Curiosity Nano	PIC18F57Q43	1.8-5.1V	1	500	500	mA
	Thermistor .5-50kOhm	MF52A2103J3470	+12 - 24V	2	10	20	mA
						0	mA
	Opamp	MCP6004-I/P	+5 to -5	1	100	100	mA
	5V regulator	LM7805	+5V - 35V	1	1000	1000	mA
							mA
+12V Power Rail	Component Name	Part Number	Supply Voltage Range	Qty.	Absolute Maximum Current (mA)	Total Current (mA)	Unit
	5V regulator	LM7805	+12 - 24V	1	500	500	mA
						0	mA
						0	mA
				Subtotal		500	mA
				Safety Margin		25%	
				Total Current Required on +12V Rail		625	mA
Regulator	Wall Power		9V - 12V	1	3000	3000	mA
	Total Remaining Current Available on +12V Rail					2375	mA

