

		Peak Sustained Current (mA)	Nominal Voltage	Max watts
	PIC18	50	3.3	0.165
	ESP32	280	3.3	0.924
	Motor	1000	12	12
	Motor Driver	5	3.3	0.0165
	Light Sensor	0.05	3.3	0.000165
	Temp Sensor	0.2	3.3	0.00066
		Total		Total
		1335.25		13.106325
	12V 1.5A Fuse	The motor can use upto 1A of current at fully speed so a 1.5A fuse will be sufficient to let it run safely at full speed and still protect from shorts. The rest of the low voltage components will draw less than 350mA typically with the current parts, so a 500mA fuse will be sufficient as well as allow for us to use a few more low current devices in the future as well		
	3.3V 500mA Fuse			