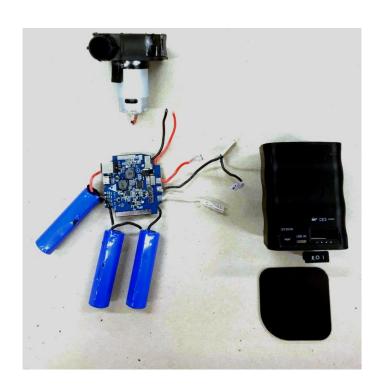
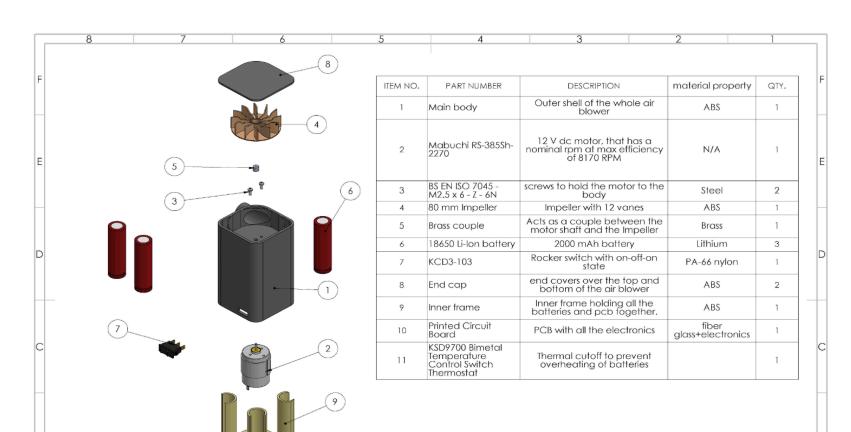
START OF TECHNICAL SLIDES

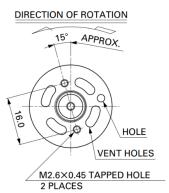


Bill of materials and blown up view

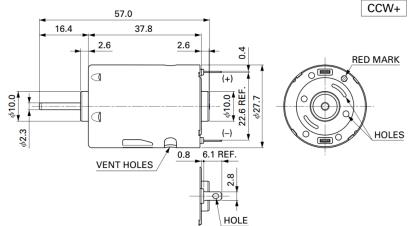
down of ents in pump. Is is s well.



Mabuchi RS-385 DC motor Specification



Usable machine screw length 3.0 max. from motor mounting surface.



UNIT: MILLIMETERS



Interesting things about the motor:

- High rpm for a fan
- high power

consumption

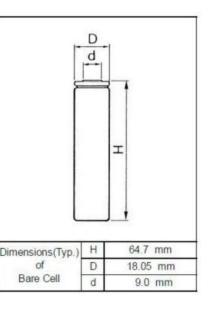
Typical applications:

- Hair Dryer
- Printer/Copy machine
- Ideal to make an air blower or

00mpr0000r

	MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL		
		OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TOR	QUE	OUTPUT	TOR	QUE	CURRENT
				r/min	Α	r/min	Α	mN·m	g⋅cm	W	mN·m	g∙cm	Α
	RS-385SH-2270 (*1)	6~24	12V CONSTANT	10000	0.20	8170	0.89	7.89	80.5	6.74	43.2	440	4.00

18650 Battery Specification

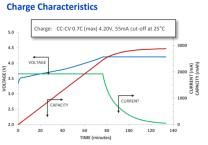




The interesting thing is:

- -LITHIUM ION battery
- High power output
- -Rechargeable
- High energy density
- long stable power and long run time
- -ideal for notebook
 PCs, boosters,
 portable devices etc
- IN our donor product, we have 3 batteries with a total capacity of 6600mAh

5.	BASIC CHARACTERISTICS						
	E 1 Canacity (25±5°C)	Nominal Capacity: 2600mAh (0.52A Disc 2.75V) Typical Capacity: 2550mAh (0.52A					
	5.1 Capacity (25±5℃)	2.75V) Minimum Capacity: 2500mAh Discharge, 2.75V)					
	5.2 Nominal Voltage	3.7V					
	5.3 Internal Impedance	≤ 70mO					
	,	2 / OHIL2					
	5.4 Discharge Cut-off Voltage	3.0V					
	5.5 Max Charge Voltage	4.20±0.05V					
	5.6 Standard Charge Current	0.52A					
	5.7 Rapid Charge Current	1.3A					
	5.8 Standard Discharge Current	0.52A					
	5.9 Rapid Discharge Current	1.3A					



5.10 Max Pulse Discharge Current

5.11 Weight

5.12 Max. Dimension

5.13 Operating Temperature



2.6A

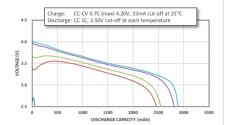
Diameter(Ø): 18.4mm

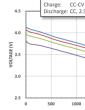
46.5±1g

0~45°C

-20 ~ 60°C

Discharge Characteristics (by temperature)





Discharge Charact

KCD3-103 rocker switch Specification



-KCD3-103 rocker switch

- comes with three settings

-Max voltage: 250V

-Max current: 5A

- can be used in our future product

KSD 9700 Thermal cut-off Specification



KLS5-KSD9700 Thermal Fuse Series

Rated Voltage: AC250V/AC125V;

Rated Current: $5A \sim 7A$ Electric intensity: 800V Min. Contact resistance: $30m\Omega$ Max. Lnsulation resistance: $100M\Omega$ Min. Response speed: $\leq 1^{\circ}$ C/ min

Response speed. To Chilling

Number of automatic cycles: 6000 Max. (Resistive Load)

Interesting things:

- -Thermal fuse that will cut off if the temperature of the batteries gets too hot.
- Uses a bimetallic structure to cut off the current
- Cut off temperature and reset temperature is different for different models

Hardware we can get

We can get a peltier cooler to aid in preservation of samples.





We will requires a mechanical force multiplier that would compress samples taken from nature. That will require steel gears to transfer the power from the motor.







