

Product Contract

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Team 14: Kenichiro Inada
Delgermaa Munkhbaatar
Thomas Higdon
Haiying Ren
Kittipong Techapanichgul
Wassim Bassalee

Changes to the Product Contract

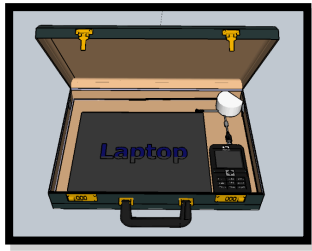
The most significant change to our product contract is that we refocused from working on laptop bags and briefcases to working on roller briefcases. This change was primarily driven by user feedback, which showed that the battery was too heavy for a regular laptop bag or briefcase.

Other changes were also made to the product contract:

- The primary change was that, after gaining better understanding of our cost structure, we realized that our total product cost may exceed the \$130 we specified in our original product contract. We currently estimate our total product cost to be approximately \$137. The total product cost is based on total materials' costs of approximately \$113.95.
- The battery weight was changed to 3.1lbs, which is the weight of the battery we used in our prototype
- The wall charging capability engineering specification was modified to include the range from 110-220V. This better reflects both our prototype and our final product.

The following two sections present both the original product contract, which was submitted earlier during the semester, and the final product contract.

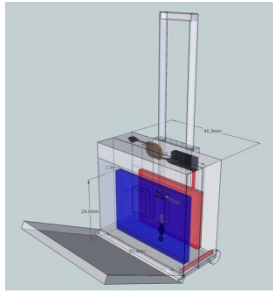
Original Product Contract



- Product: **Power-2-Go™** - Bag with Integrated Stand Alone Power
- Intended Customer: Heavy Business Travelers
- Market: Briefcase & Laptop Bags

Customer Need	Product Attribute(s)	Engineering Specification(s)
Affordability	Cost	< \$130
Adequate Battery Capacity	Battery Capacity	>= 171 Watt
Sufficient Power Independence	Battery Life	>= 10 hrs
Charge Laptop and other Peripherals	Interface Compatibility	1. DC 19V 0 - 6 Amp 2. 2. USB 5V 0-1 Amp
Wall Charging Capability	Charging Interface	AC Outlet 220 V
Charged Battery Availability	Battery Charge Time	<= 4 hrs
Portability Comfort	Battery Weight	< 5.1 lbs
Seamlessly Integrated Battery	Battery Dimensions	<= 2 in x 14 in x 12 in
Comfort and Safety	Battery Temperature	<= 100 °F

Final Product Contract



- Product: **Power-2-Go™** - Bag with Integrated Stand Alone Power
- Intended Customer: Heavy Business Travelers
- Market: Roller Briefcases & Laptop Bags

Customer Need	Product Attribute(s)	Engineering Specification(s)
Affordability	Price	< \$250
	Materials' cost	~\$113.95
	Total cost	~\$137
Adequate Battery Capacity	Battery Capacity	>= 171 Watt
Sufficient Power Independence	Battery Life	>= 10 hrs
Charge Laptop and other Peripherals	Interface Compatibility	1. DC 19V 0 - 6 Amp 2. 2. USB 5V 0-1 Amp
Wall Charging Capability	Charging Interface	AC Outlet 110-220 V
Charged Battery Availability	Battery Charge Time	<= 4 hrs
Portability Comfort	Battery Weight	< 3.1 lbs
Seamlessly Integrated Battery	Battery Dimensions	<= 2 in x 14 in x 12 in
Comfort and Safety	Battery Temperature	<= 100 °F