2-Power Laptop Battery	Inferior Laptop Battery
Type of Cells	Type of Cells
	+ "RED.EDANAZEFU REPAZE
For performance and safety 2-Power only use UL1642 certified A Grade Korean Samsung or Japanese Panasonic, Sanyo cells.	Unbranded generic Chinese made cell.
Electrical & Fire Retardant Insulation	Electrical & Fire Retardant Insulation
All components are separated by insulated fire retardant paper. This prevents components touching and shorting. In the event of a fire the fire retardant helps prevents the spread and severity of the fire.	The only insulation to be found is a single strip behind the circuit board. The battery uses cheaper electrical wire over solid metal bars to connect power to the cells. Electrical wire is more prone to overheating.
The above photo shows insulated fire retardant paper and rubber separator between cells. This important safety step reduces electrical shorts and helps contain a fire to a single row of cells.	No insulated fire retardant paper and rubber separator between cells. Increased risk of short circuit and fire spreading to all cells causing a more severe fire.

2-Power Laptop Battery	Inferior Laptop Battery
External Temperature Sensor	External Temperature Sensor
	Χ
The External Temperature Sensor detects abnormal heat and sends a signal to the microprocessor to shut down the battery.	No External Temperature Sensor.
Safety Circuits	Safety Circuits
The circuit uses 4 battery current switching devices. These switches are used to control the battery and since four are used the circuit will operate at a lower temperature.	The circuit only uses 2 current switching devices.
Performance	Performance
The Battery DataFormBattery DataFormTemperature:27.9tDeviceName:NS2P3SZHH4H0Voltage:9512mVManufacturer Name:SANYOPPCurrent:0mAManufacturer Date:2014-10-16Designed Capacity:4500mAhFullChargeCapacity:4483mAhRelativeStateOfCharge:0%RemainingCapacity:0mAhAbsoluteStateOfCharge:0%Cyclecount:3	Battery Data Battery Data Temperature :29.8t Voltage :9876mV Voltage :29.7t Durrent :251mA Designed Capacity :520mAh RelativeStateOfCharge:0% RemainingCapacity:0mAh AbsoluteStateOfCharge:0% Cyclecount:3
Battery data states battery has 4500mAh capacity. A capacity test after 3 full charge cycles shows the 2-Power battery holds 0.38% less at 4483 mAh.	Battery data states battery has 5200mAh capacity. A capacity test after 3 full charge cycles shows the battery holds 24% less at only 3955 mah.