


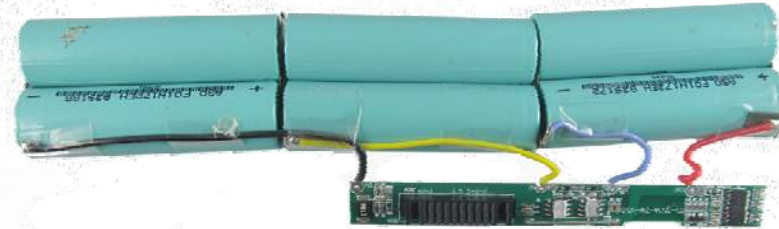

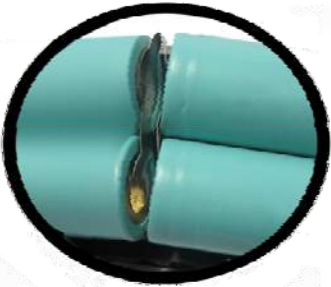


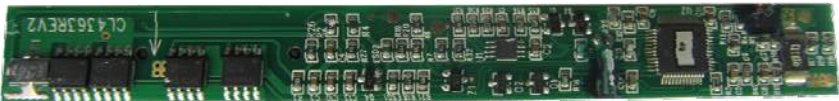





2-Power Laptop Battery	Inferior Laptop Battery
Type of Cells	Type of Cells
	
<p>For performance and safety 2-Power only use UL1642 certified A Grade Korean Samsung or Japanese Panasonic, Sanyo cells.</p>	<p>Unbranded generic Chinese made cell.</p>
Electrical & Fire Retardant Insulation	Electrical & Fire Retardant Insulation
	
<p>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 prevent the spread and severity of the fire.</p>	<p>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.</p>
	
<p>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.</p>	<p>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.</p>

2-Power Laptop Battery	Inferior Laptop Battery
External Temperature Sensor	External Temperature Sensor
	
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
	
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.