

## Common Abbreviations

<b>I2C</b>	Inter-Integrated Circuit (communication bus)
<b>18650</b>	Most common Li-ion cylindrical cell size measuring 18mm dia. by 65mm ht.
<b>A</b>	Ampere (a unit of measure for electrical current)
<b>Ah</b>	Ampere-hour (capacity or energy in a cell)
<b>BMS</b>	Battery Management System
<b>C</b>	Celsius, Centigrade (temperature)
<b>CCV</b>	Closed Circuit Voltage
<b>CCCV</b>	Constant current constant voltage (a charging sequence/method)
<b>CID</b>	Circuit Interrupt Device
<b>C of C</b>	Certificate of Compliance
<b>C-rate</b>	Discharge rate of a battery as a function of its capacity in Amp-hrs
<b>DoD</b>	Depth of Discharge
<b>DOT</b>	Department of Transportation (US)
<b>dT/dt</b>	Delta Temperature over Delta Time (rate of change of temperature)
<b>ELC</b>	Equivalent lithium content
<b>EOL</b>	End of Life (capacity)
<b>F</b>	Fahrenheit (temperature)
<b>h</b>	Hour (time)
<b>I</b>	Current (electrical)
<b>IATA</b>	International Air Transport Association
<b>IEC</b>	International Electrochemical Commission
<b>IS</b>	Intrinsic safety (used on batteries)
<b>LCD</b>	Liquid crystal display
<b>LCO</b>	Lithium Cobalt Oxide (a common cathode material in Li-ion cells)
<b>LED</b>	Light Emitting Diode
<b>LFP</b>	Lithium-Iron-Phosphate (a common cathode material in Li-ion cells)
<b>LiCoO<sub>2</sub></b>	Lithium-cobalt-oxide
<b>LiFePO<sub>4</sub></b>	Lithium-iron-phosphate-oxide
<b>Li-ion</b>	Lithium-ion battery (short form)
<b>LiMn<sub>2</sub>O<sub>4</sub></b>	Lithium-manganese-oxide (a common cathode material)
<b>LiNiCoAlO<sub>2</sub></b>	Lithium-nickel-cobalt-aluminum-oxide (a common cathode material in Li Ion cells)
<b>LiNiMnCoO<sub>2</sub></b>	Lithium-nickel-manganese-cobalt-oxide (a common cathode material in Li Ion cells)
<b>Li<sub>5</sub>Ti<sub>5</sub>O<sub>13</sub></b>	Lithium-titanate (a specialty high power anode material for Li-ion cells)
<b>LMO</b>	Lithium-ion battery with Lithium-manganese oxide cathode
<b>LTO</b>	Lithium-titanate (a high power anode material for Li-ion cells)
<b>mAh</b>	Milliampere-hours
<b>NCA</b>	Lithium-ion battery with a nickel-cobalt-aluminum-oxide cathode
<b>NiCd</b>	Nickel-cadmium (battery)
<b>NiFe</b>	Nickel-iron (battery)
<b>NiH</b>	Nickel-hydrogen (battery)
<b>NiMH</b>	Nickel-metal-hydride (battery)
<b>NiZn</b>	Nickel-zinc (battery)
<b>NMC</b>	Lithium-ion battery with nickel, manganese, cobalt-oxide cathode
<b>NTC</b>	Negative Temperature Coefficient
<b>OCP</b>	Over-current Protection

<b>OCV</b>	Open Circuit Voltage
<b>OEM</b>	Original Equipment Manufacturer
<b>OVP</b>	Over-voltage Protection
<b>PRBA</b>	Portable Rechargeable Battery Association
<b>PTC</b>	Positive Temperature Coefficient (a battery protection device)
<b>QA</b>	Quality Assurance
<b>Qi</b>	Standard on inductive charging by Wireless Power Consortium (WPC)
<b>R</b>	Resistor (electrical)
<b>RF</b>	Radio Frequency (communications)
<b>SBS</b>	Smart Battery System
<b>SLA</b>	Sealed Lead Acid (battery)
<b>SMBus</b>	System Management Bus (smart battery)
<b>SoC</b>	State-of-Charge
<b>SOH</b>	State-of-Health
<b>UL</b>	Underwriters Laboratories (product safety testing and certification)
<b>UVP</b>	Under-Voltage Protection
<b>V</b>	Voltage (electrical)
<b>VCO</b>	Voltage Cutoff (safety feature)
<b>VL</b>	Voltage Limiting (as in charging a battery)
<b>VRLA</b>	Valve Regulated Lead Acid (battery)
<b>W</b>	Watt (electrical power; voltage times current = watts)
<b>Wh</b>	Watt-hour (electrical energy; watts times h = Wh)
<b>Wh/kg</b>	Watt-hour per kilogram (gravimetric energy density, aka specific energy)
<b>Wh/l</b>	Watt-hour per liter (volumetric energy density)
<b>Wi-Fi</b>	Wireless Fidelity (network)
<b>WPC</b>	Wireless Power Consortium
<b>Z</b>	Impedance (frequency dependent resistance)
<b>Zigbee</b>	Wireless network targeting RF applications that require a secure low data rate and long battery life