

Common Abbreviations

I2C	Inter-Integrated Circuit (communication bus)
18650	Most common Li-ion cylindrical cell size measuring 18mm dia. by 65mm ht.
A	Ampere (a unit of measure for electrical current)
Ah	Ampere-hour (capacity or energy in a cell)
BMS	Battery Management System
C	Celsius, Centigrade (temperature)
CCV	Closed Circuit Voltage
CCCV	Constant current constant voltage (a charging sequence/method)
CID	Circuit Interrupt Device
C of C	Certificate of Compliance
C-rate	Discharge rate of a battery as a function of its capacity in Amp-hrs
DoD	Depth of Discharge
DOT	Department of Transportation (US)
dT/dt	Delta Temperature over Delta Time (rate of change of temperature)
ELC	Equivalent lithium content
EOL	End of Life (capacity)
F	Fahrenheit (temperature)
h	Hour (time)
I	Current (electrical)
IATA	International Air Transport Association
IEC	International Electrochemical Commission
IS	Intrinsic safety (used on batteries)
LCD	Liquid crystal display
LCO	Lithium Cobalt Oxide (a common cathode material in Li-ion cells)
LED	Light Emitting Diode
LFP	Lithium-Iron-Phosphate (a common cathode material in Li-ion cells)
LiCoO₂	Lithium-cobalt-oxide
LiFePO	Lithium-iron-phosphate-oxide
Li-ion	Lithium-ion battery (short form)
LiMn₂O₄	Lithium-manganese-oxide (a common cathode material)
LiNiCoAlO₂	Lithium-nickel-cobalt-aluminum-oxide (a common cathode material in Li Ion cells)
LiNiMnCoO₂	Lithium-nickel-manganese-cobalt-oxide (a common cathode material in Li Ion cells)
Li₅Ti₅O₁₃	Lithium-titanate (a specialty high power anode material for Li-ion cells)
LMO	Lithium-ion battery with Lithium-manganese oxide cathode
LTO	Lithium-titanate (a high power anode material for Li-ion cells)
mAh	Milliampere-hours
NCA	Lithium-ion battery with a nickel-cobalt-aluminum-oxide cathode
NiCd	Nickel-cadmium (battery)
NiFe	Nickel-iron (battery)
NiH	Nickel-hydrogen (battery)
NiMH	Nickel-metal-hydride (battery)
NiZn	Nickel-zinc (battery)
NMC	Lithium-ion battery with nickel, manganese, cobalt-oxide cathode
NTC	Negative Temperature Coefficient
OCP	Over-current Protection

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