AVEnergy Model Number	AVE-AAA
ANSI Battery Size	AAA
IEC Battery Size	R03
Overall Dimensions	Ø10.2*44mm
Individual Battery Weight	7.5±0.5g
Power Input	USB-C + Battery both ends
Cell Chemistry	Lithium-Ion
Cathode Chemistry (Positive Electrode)	Nickel Manganese Cobalt (NMC613) + LFP
Anode Chemistry (Negative	Graphite
Cell Energy Density (Min~Max)	265Wh/kg (250~300)
Cell Configuration	1S1P
Nominal Output Voltage (Min~Max)	1.5V (1.0V/1.6V)
Energy (Wh)	1.125
Energy Capacity of battery (mWh)	1125mWh
GrossNominal Capacity of battery	750mAh (@200mA)
Energy Capacity of cell (mWh)	1216mWh
Gross Capacity of	320mAh
Average Conversion Efficiency	85.3% (66.6%~86.9%)
Average Net Output Energy	1037mWh (810mWh~1057mWh)
Charge Time @ Max Rate (from full	100% = 78min (1.3h) / 80% = 60min / 50% = 37min
Input Voltage (Min/Max)	5V (4.5V / 6.0V)
Min/Max Input Current	60mA /300mA
Max Continuous Output Current (or	2.5A (3.75W)
Max PEAK Output Current (up to 3s)	4.0A (6.00W)
State of Charge % from Factory	50~60%, Internal cells @ 3.85V ± 0.1V

产品描述	AVE-AAA 是一款高安全、高能量密度的1.5V锂离子可充电电池，完美兼容标准AAA尺寸，适配遥控器、玩具、手电筒、小型数码设备等多场景应用。支持USB-C、磁吸等多种充电方式，内置多重安全保护，循环寿命长，是一次性碱性电池的环保升级替代方案。

AVE-AA	AVE-C
AA	C
R6S	R14S
Ø14.1*50.2mm	Ø25.6*50mm
17.5±0.5g	41.0±0.5g
USB-C + Battery both ends	USB-C + Battery both ends
Lithium-Ion	Lithium-Ion
Nickel Manganese Cobalt (NMC613) + LFP	Nickel Manganese Cobalt (NMC613) + LFP
Graphite	Graphite
265Wh/kg (250~300)	275Wh/kg (250~300)
1S1P	1S1P
1.5V （1.0V/1.6V）	1.5V （1.0V/1.6V）
3.3	6.0
3300mWh	6000mWh
2200mAh (@200mA)	4000mAh (@200mA)
3344mWh	6460mWh
880mAh	1700mAh
85.3% (60.8%~87.3%)	85.6% (68.7%~87.7%)
2852mWh (2033mWh~2919mWh)	5530mWh (4438mWh~5665mWh)
100% = 126min (2.1h) / 80% = 94min / 50% = 60min	100% = 240min (4.0h) / 80% = 186min / 50% = 119min
5V (4.5V / 6.0V)	5V (4.5V / 6.0V)
100mA / 530mA	100mA / 530mA
3.3A (4.95W)	3.1A (4.65W)
4.5A (6.75W)	4.5A (6.75W)
50~60%, Internal cells @ 3.85V ± 0.1V	50~60%, Internal cells @ 3.85V ± 0.1V

AVE-AA 是通用型1.5V锂离子可充电电池，标准AA尺寸完美适配绝大多数家用、商用设备，包括玩具、相机、闪光灯、电动牙刷、小型家电等。采用NMC613+LFP复合正极体系，兼顾高能量密度与安全性，支持多种充电方式，循环性能优异，可大幅降低一次性电池的使用成本与环境负担。	AVE-C 是中大容量1.5V锂离子可充电电池，标准C尺寸适配手电筒、手提灯、小型电动工具、户外设备、医疗设备等中高功耗场景。高达275Wh/kg的能量密度，配合4000mAh的标称容量，带来超长续航表现；内置多重安全防护机制，支持大电流放电，稳定可靠，是户外、工业场景一次性电池的理想替代方案。

AVE-D	AVE-9V
D	9V
R20S	6LR61
Ø32.3*60mm	25.6*16.1*47.5mm
70.5±0.5g	30.5±0.5g
USB-C + Battery both ends	USB-C + Battery both ends
Lithium-Ion	Lithium-Ion
Nickel Manganese Cobalt (NMC613) + LFP	Lithium cobalt oxide on a pure high voltage platform
Graphite	Graphite
264Wh/kg (250~300)	288Wh/kg (250~300)
1S3P	2S1P
1.5V（1.0V/1.6V）	9.0V（5.4V/9.0V）
13.5	5.04
13500mWh	5040mWh
9000mAh (@200mA)	560mAh (@100mA)
14250mWh	5070mWh
1250mAh*3(P)	650mAh*2(S)
86.4% (66.6%~89.4%)	95.0% (90.0%~99.9%)
12312mWh (9491mWh~12740mWh)	4817mWh (4563mWh~5065mWh)
100% = 426min (7.1h) / 80% = 330min / 50% = 210min	100% = 205min (3.4h) / 80% = 129min / 50% = 81min
5V (4.5V / 6.0V)	5V (4.5V / 6.0V)
100mA / 530mA	30mA / 530mA
3.3A (4.95W)	1.0A (9.00W)
4.5A (6.75W)	1.1A (9.90W)
50~60%, Internal cells @ 3.85V ± 0.1V	50~60%, Internal cells @ 3.85V ± 0.1V

AVE-D 是超大容量1.5V锂离子可充电电池，标准D尺寸适配大功率手电筒、户外照明设备、电动工具、应急电源、大型玩具等高功耗、长续航需求场景。采用1S3P电芯配置，标称容量高达9000mAh，能量密度达264Wh/kg，配合优异的大电流放电性能，可稳定支撑大功率设备长时间运行；内置完善的安全保护体系，循环寿命长，是工业、户外、应急场景的高性价比储能解决方案。	AVE-9V 是高电压9V锂离子可充电电池，完美兼容标准9V尺寸，适配万用表、烟雾报警器、无线麦克风、对讲机、玩具遥控器、安防设备等场景。采用纯高压平台钴酸锂正极体系，能量密度高达288Wh/kg，转换效率最高可达99.9%，输出稳定；内置过充、过放、短路、过温等多重安全保护，循环性能优异，是一次性9V电池的环保、高性价比替代方案。

AVE-CR123A

CR123A
CR17345
Ø16.6*34.2mm
15.5±0.5g
USB-C + Battery both ends
Lithium-Ion
Nickel Manganese Cobalt (NMC613) + LFP
Graphite
276Wh/kg (250~300)
1S1P
3.0V （2.4V/3.3V）
2.7
2700mWh
900mAh (@100mA)
2926mWh
770mAh
93.6% (81.8%~93.6%)
2739mWh (2393mWh~2739mWh)
100% = 114min (1.9h) / 80% = 84min / 50% = 53min
5V (4.5V / 6.0V)
100mA / 530mA
1.5A (4.50W)
2.7A (8.64W)
50~60%, Internal cells @ 3.85V ± 0.1V

AVE-CR123A 是3.0V高能量密度锂离子可充电电池，完美兼容CR123A标准尺寸，适配强光手电筒、战术灯、户外照明、摄影器材、安防设备、智能仪表等场景。采用NMC613+LFP复合正极体系，能量密度高达276Wh/kg，转换效率最高可达93.6%，支持大电流脉冲放电，适配高功耗设备；内置完善的安全防护机制，循环寿命长，是一次性CR123A锂电池的理想升级替代方案。