

数据条目描述	Column-ID	Col-Id-Str	说明
循环序号	0x1000	"Cycle.Index"	一个完整的测试由多个循环组成，每个循环都有一个索引序号 A complete test consists of multiple cycles, each with an index
充电容量	0x1001	"Cycle.CapC"	充电容量，即充电电流对时间的积分（电流为实际采样值），单位 Ah 或 mAh Charge capacity is the integral of the charge current over time (current is the actual sampled value), with unit Ah or mAh
放电容量	0x1002	"Cycle.CapD"	放电容量，即放电电流对时间的积分（电流为实际采样值），单位 Ah 或 mAh Discharge capacity is the integral of the discharge current over time (current is the actual sample value), with unit Ah or mAh
充电比容量	0x1003	"Cycle.SpeCapC"	充电比容量，即在一个循环内，每克活性物质的充电容量，单位 mAh/g Specific charge capacity is the charge capacity divided by the loading of active material in a cycle, with unit mAh/g
放电比容量	0x1004	"Cycle.SpeCapD"	放电比容量，即在一个循环内，每克活性物质的放电容量，单位 mAh/g Specific discharge capacity is the discharge capacity divided by the loading of active material in a cycle, with unit mAh/g
效率	0x1005	"Cycle.Effi"	效率，即放电容量 / 充电容量 * 100% Efficiency is the ratio of discharge capacity / charge capacity * 100%
充电能量	0x1006	"Cycle.EnergyC"	充电能量，即充电电流与电压之积对时间的积分（电流、电压均为实际采样值），单位 Wh 或 mWh Charge energy is the integral of (charging current * voltage) over time (current and voltage are the actual sampled values), with unit Wh or mWh
放电能量	0x1007	"Cycle.EnergyD"	放电能量，即放电电流与电压之积对时间的积分（电流、电压均为实际采样值），单位 Wh 或 mWh Discharge energy is the integral of (discharging current * voltage) over time (current and voltage are the actual sampled values), with unit Wh or mWh
放电中压	0x1008	"Cycle.MedVoltD"	放电中压，即一个循环全部放电容量的一半对应的电压值 Medium discharge voltage is the voltage value at the half of the discharge capacity in a cycle
恒流充入容量	0x1009	"Cycle.CCCCap"	恒流充电容量，即在一个循环内，仅仅累计恒流充电充入的容量

数据条目描述	Column-ID	Col-Id-Str	说明
			Constant current charge capacity is the charged capacity during the step of constant current charge in a cycle
恒流充入比例	0x100a	"Cycle.CCCPer"	恒流充电百分比，即在一个循环内，恒流充入容量 / 总充电容量 * 100% Constant current charge percentage is constant current charge capacity / total charge capacity * 100% in a cycle
平台容量	0x100b	"Cycle. PlatCapD"	平台放电容量，即一个循环内，放电至指定电压点（电压点由软件自动计算或由用户设置）时对应的放电容量。这里，所说的“指定电压点”即是“平台电压” Platform discharge capacity is the discharge capacity when discharged to a specified voltage point in a cycle, which is automatically calculated by the software or set by the user. Here, the "specified voltage point" is referred to "platform voltage"
平台比容量	0x100c	"Cycle. PlatSpeCapD"	平台比容量，即每克活性物质的平台放电容量，单位 mAh/g Specific platform discharge capacity is the platform discharge capacity divided by grams of active material with unit mAh/g
平台	0x100d	"Cycle. PlatPerD"	平台放电百分比，即一个循环内，平台容量 / 总放电容量 * 100% Platform discharge percentage is the platform capacity / total discharge capacity * 100% in a cycle
平台时间	0x100e	"Cycle. PlatTimeD"	平台放电时间，一个循环内，放电至平台电压所用的时间 Platform discharge time is the time it takes to discharge to the platform voltage in a cycle
充电电容	0x100f	"Cycle.CaptnC"	充电电容，即充电对应的电容值，单位 F Charge capacitance is the capacitance value based on the charge with the unit F
放电电容	0x1010	"Cycle.CaptnD"	放电电容，即放电对应的电容值，单位 F Discharge capacitance is the capacitance value based on the discharge with the unit F
rd	0x1011	"Cycle.Resistance"	直流内阻，软件利用充放电切换时刻计算出来的直流内阻，单位 mΩ（方法之 1） DC internal resistance is the DC internal resistance the software calculated at the switch of charge and discharge with unit of mΩ (method 1)
rd2	0x1012	"Cycle.Resistance2"	直流内阻 2，软件利用充放电切换时刻计算出来的的直流内阻，单位 mΩ（方法之 2） DC internal resistance is the DC internal resistance the software calculated at the switch of charge and discharge with unit of mΩ (method 2)

数据条目描述	Column-ID	Col-Id-Str	说明
充电比能量	0x1013	"Cycle.SpeEnergyC"	充电比能量，每千克活性物质的充电能量，单位 Wh/kg Specific charge energy is the charging energy divided by kilograms of active substance, with unit Wh/kg
放电比能量	0x1014	"Cycle.SpeEnergyD"	放电比能量，即每千克活性物质的放电能量，单位 Wh/kg Specific discharge energy is the discharging energy divided by kilograms of active substance, with unit Wh/kg
放电终压	0x1015	"Cycle.EndVoltD"	放电终压，即放电停止电压 Discharge end voltage is the limiting voltage during the discharge
循环保持率	0x1016	"Cycle.RetentionD"	循环保持率，即在一个测试周期内，放电容量/ 标准容量 * 100%。这里，“标准容量”可由用户指定，它既可以是某个指定循环的放电容量，也可以是前一循环的放电容量（递推计算） Capacity retention is the discharge capacity for a cycle / standard capacity * 100%. Here, "standard capacity" can be specified by the user, which can be either the discharge capacity of a given cycle, or the discharge capacity of the previous cycle (recursive calculation)
充电 DCIR	0x1017	"Cycle.AveDCIR_C"	充电 DCIR，即充电过程计算出来的直流内阻 Charge average DC internal resistance is the resistance calculated during charge
放电 DCIR	0x1018	"Cycle.AveDCIR_D"	放电 DCIR，即放电过程计算出来的直流内阻 Discharge average DC internal resistance is the resistance calculated during discharge
充电中压	0x1019	"Cycle.MedVoltC"	充电中压，即一个循环全部充电容量的一半对应的电压值 Medium charge voltage is the voltage value at the half of the charge capacity in a cycle
模式序号	0x2001	"Step.Index"	每个循环包含多个工步，每个工步都有一个索引序号 Each cycle contains multiple steps. Each step has an index
工步模式	0x2002	"Step.Mode"	每个工步运行的模式 Operation mode for each step
工步时间	0x2003	"Step.Time"	一个工步内，花费的运行时间 Step time is the running time spent in a step
容量	0x2004	"Step.Capacity"	一个工步内，电流对时间的积分（电流为实际采样值），单位 Ah 或 mAh

数据条目描述	Column-ID	Col-Id-Str	说明
			Step capacity is the integral of current (sampled value) over time with unit Ah or mAh
比容量	0x2005	"Step.SpeCapacity"	比容量，即在一个工步内，每克活性物质的容量，单位 mAh/g Specific capacity is the capacity per gram of active substance in a step with unit mAh/g
能量	0x2006	"Step.Energy"	一个工步内，电流与电压之积对时间的积分（电流、电压均为实际采样值），单位 Wh 或 mWh In a working step, the integral of the product of the current and voltage over time (current and voltage are the sampled value), with unit Wh or mWh
电容	0x2007	"Step.Capacitance"	每个工步模式对应的电容值，单位 F Capacitance in a step, in F
比能量	0x2008	"Step.SpeEnergy"	比能量，即在一个工步内，每千克活性物质的能量，单位 Wh/kg Specific energy is the energy divided by kilograms of active substance with unit Wh / kg
中值电压	0x2009	"Step.MedVolt"	中值电压，即一个测试工步全部容量的一半对应的电压值 Medium voltage is voltage at half of total capacity in a charge/discharge step
起始电压	0x200a	"Step.StartVolt"	起始电压，即一个测试工步开始时刻对应的电压值 Start voltage is voltage at beginning of a charge/discharge step
终止电压	0x200b	"Step. EndVolt"	终止电压，即一个测试工步结束时刻对应的电压值 End voltage is voltage at end of a charge/discharge step
记录序号	0x4001	"Rec.Index"	每个工步有多个记录，每个记录有一个索引序号 Each step has multiple records. Each record has an index
测试时间	0x4002	"Rec.TestTime"	当前测试累计的时间 Cumulative time of current test
步骤时间	0x4003	"Rec.StepTime"	当前步骤累计的时间 Cumulative time for the current step
电流	0x4004	"Rec.Current"	当前记录下，电流采样的实际值 The current value sampled in current record
容量	0x4005	"Rec.Capacity"	当前记录下，一个工步的累计容量 The cumulative capacity in a step in current record

数据条目描述	Column-ID	Col-Id-Str	说明
比容量	0x4006	"Rec.SpeCapacity"	比容量，即在当前记录下，每克活性物质累计的容量，单位 mAh/g Specific capacity gram is the cumulative capacity divided by grams of active material with unit mAh/g in current record
SOC DOD	0x4007	"Rec.SocDod"	荷电状态/放电深度 State of Charge/Depth of Discharge
电压	0x4008	"Rec.Voltage"	当前记录下，电压采样的实际值 The voltage value sampled in current record
能量	0x4009	"Rec.Energy"	一个工步从开始到当前，电流与电压之积对时间的积分（电流、电压均为实际采样值），单位 Wh The integral of (current * voltage) over time (current and voltage are the actual sampled value) in a step with the unit Wh in current record
比能量	0x400a	"Rec.SpeEnergy"	比能量，即在当前记录下，每千克活性物质累计的能量，单位 Wh/kg Specific Energy is the cumulative energy divided by kilograms of active substance in the current record with unit Wh/kg
系统时间 1	0x400b	"Rec.SysTime"	系统时间（字符串型） System Time (string type)
辅助温度	0x400c	"Rec.AuxTemp"	辅助温度 Auxiliary Temperature
辅助电压	0x400d	"Rec.AuxVolt"	辅助电压 Auxiliary Voltage
辅助压力（待实现）	0x400e	"Rec.AuxPress"	辅助压力 Auxiliary Pressure
系统时间 2	0x400f	"Rec.SysTimeLong"	系统时间（long 型） System Time (long type)