### 系统登录

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请求地址 | http://iot.ideyee.com/business/auth/login | | | |
| 请求方式 | POST | | | |
| 请求参数 | 名称 | 类型 | 说明 | 备注 |
| account | String | 账号 | 必填 |
| password | String | 密码MD5加密传过来(小写字母) | 必填 |

### 获取站点列表

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请求地址 | http://iot.ideyee.com/business/site/getSitePage | | | |
| 请求方式 | GET | | | |
| 请求参数 | 字段名 | 字段类型 | 描述 | 备注 |
| nowPage | int |  | 必填 |
| pageSize | int |  | 必填(MAX 500) |
| siteName | String | 站点名称 |  |
| state | int | 站点状态（1=正常，-1=异常，0=全部） |  |
| 返回json | {  "code": 0,  "data": {  "list": [  {  "address": "成都",  "borough": "高新区",  "checked": false,  "createTime": null,  "createUser": null,  "customerId": 0,  "customerName": null,  "description": null,  "icon": "./static/img/zTree/site\_1.png",  "id": 329,  "isMapping": 0,  "latitude": null,  "longitude": null,  "municipal": "成都市",  "operater": null,  "opstate": 2,  "opstateStr": "异常",  "province": "四川省",  "siteIds": null,  "siteName": "新版本网关测试3",  "state": 2,  "stateStr": "异常",  "status": 0,  "type": 0,  "typeName": null,  "updateTime": null,  "updateUser": null,  "user": null,  "vendorId": 0  },  {  "address": "成都",  "borough": "武侯区",  "checked": false,  "createTime": null,  "createUser": null,  "customerId": 0,  "customerName": null,  "description": null,  "icon": "./static/img/zTree/site\_1.png",  "id": 325,  "isMapping": 0,  "latitude": null,  "longitude": null,  "municipal": "成都市",  "operater": null,  "opstate": 3,  "opstateStr": "异常",  "province": "四川省",  "siteIds": null,  "siteName": "新版网关测试２",  "state": 19,  "stateStr": "异常",  "status": 0,  "type": 0,  "typeName": null,  "updateTime": null,  "updateUser": null,  "user": null,  "vendorId": 0  },  {  "address": "成都",  "borough": null,  "checked": false,  "createTime": null,  "createUser": null,  "customerId": 0,  "customerName": null,  "description": null,  "icon": "./static/img/zTree/site\_1.png",  "id": 324,  "isMapping": 0,  "latitude": null,  "longitude": null,  "municipal": "凉山彝族自治州",  "operater": null,  "opstate": 519,  "opstateStr": "异常",  "province": "四川省",  "siteIds": null,  "siteName": "新版网关测试１",  "state": 535,  "stateStr": "异常",  "status": 0,  "type": 0,  "typeName": null,  "updateTime": null,  "updateUser": null,  "user": null,  "vendorId": 0  }  ],  "maxPage": 1,  "nowPage": 1,  "pageSize": 10,  "state": 0,  "totalCount": 3  },  "message": "请求成功",  "success": true  } | | | |
| 字段说明 | siteName 站点名称  id 站点ID 唯一标识  "address" 详细地址  "borough": 区/县级,  "latitude": 纬度,  "longitude": 经度,  "municipal": 市级,  "province": 省级,  "state": 站点状态  其它字段无意义! | | | |

### 电源系统列表

|  |  |
| --- | --- |
| 请求地址 | http://iot.ideyee.com/business/powerSystem/getList |
| 请求方式 | GET |
| 返回JSON示例 | [{“id”:1,”name”:”名称”,”siteId”:1,”powerTypeId”:1}] |
| 返回JSON示例 | {"code":0,"data":[{"id":179,"model":null,"name":"UPS-1","number":2,"powerTypeId":2,"productor":null,"siteId":325,"v1":null,"v2":null,"v3":null}],"message":"请求成功","success":true} |
| 字段说明 | model:型号  name:名称  number:编号  productor:生产厂家  siteId:站点id  powerTypeId:1=开关电源,2=UPS,3=EPS,4=直流屏  v1:一次下电电压  v2:二次下电电压  v3:(扩展) |

### 获取电池组列表

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请求地址 | http://iot.ideyee.com/business/battery/getBatteryGroupList | | | |
| 请求方式 | GET | | | |
| 请求参数 | 名称 | 类型 | 说明 | 备注 |
| 返回JSON | {  "code": 0,  "data": [  {  "batch": null,  "batchId": 0,  "batteryCount": 24,  "batteryModel": null,  "batteryType": 2,  "batteryTypeName": null,  "bessInstallTime": 1514995200000,  "bessSn": null,  "brandId": 36,  "brandName": null,  "brms": 1,  "capacitance": 500,  "devType": 0,  "fullElectricity": false,  "gatewayId": 416,  "hall": 1,  "hallType": 2,  "id": 512,  "modelId": 90,  "name": "开关电源1-1",  "number": 1,  "online": false,  "opstate": 0,  "opstateStr": null,  "powerType": 1,  "productDate": null,  "productDateMs": null,  "remark": "操作人员:18583969690 最后操作时间: 2018-01-04",  "resistance": 0.4,  "serialNumber": "342-batGrp-1",  "siteId": 342,  "sitePowerId": 12,  "startDate": null,  "startDateMs": null,  "state": 0,  "stateStr": null,  "status": 1  }],  "message": "请求成功",  "success": true  } | | | |
| 字段说明 | "batch": 批次,  "batchId": 批次ID,  "batteryCount": 电池组电池数量,  "batteryModel": 电池型号,  "batteryType": 单节电池电压 2=2V,12=12V ... n = nV,  "bessInstallTime": BESS安装时间,  "brandId": 品牌ID,  "brandName": 品牌名称,  "brms": 是否安装有brms 0 = 无 ,1 = 有,  "capacitance": 标称容量 (AH),  "fullElectricity": 安装时是否满电,  "gatewayId": 网关ID,  "hall": 是否装有HALL传感器 ,0=无,1=有,  "hallType": hall类型 1=SCK13-300A ,2=SCK13-200A,  "id": 设备ID,  "modelId": 设备型号ID,  "name": 设备名称,  "number": 设备编号,  "powerType": 电源系统类型,0=未知,1=开关电源,2=UPS,3=EPS,4=直流屏,  "remark": 备注信息,  "resistance": 标称内阻,  "serialNumber": 设备编号,  "siteId": 站点ID,  "sitePowerId": 电源系统ID, | | | |

### 获取电池组品牌列表

|  |  |
| --- | --- |
| 请求地址 | http://iot.ideyee.com/business/batteryConfig/getBrandList |
| 请求方式 | GET |
| 返回JSON示例 | [{“id”:1,”name”:”品牌名”}] |
| 字段说明 |  |

### 获取电池组型号列表

|  |  |
| --- | --- |
| 请求地址 | http://iot.ideyee.com/business/batteryConfig/getModelList |
| 请求方式 | GET |
| 返回JSON示例 | [{“id”:1,”name”:”型号名称”,”brand”:1}] |
| 字段说明 | brand:品牌ID |

### 获取电池组批次列表

|  |  |
| --- | --- |
| 请求地址 | http://iot.ideyee.com/business/batteryConfig/getBatchList |
| 请求方式 | GET |
| 返回JSON示例 | [{“id”:1,”name”:”批次名称”,”brand”:1,”model”:1}] |
| 字段说明 | brand:品牌ID  model:型号ID |

### 设备列表

|  |  |
| --- | --- |
| 请求地址 | http://iot.ideyee.com/business/device/getList |
| 请求方式 | GET |
| 返回JSON | {"code":0,"data":[{"deviceType":1,"id":52,"name":"BRMS","sn":"268-batGrp-1"}],"message":"请求成功","success":true} |
| 字段说明 | deviceType:设备类型 系统常量; 1=电池组,2=BESS,4=智能电表,7=门禁,8=烟感,9=温度,10=湿度,18=电源系统远程控制传感器,20=空调远程控制,21=水浸 |

### 获取告警列表

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请求地址 | http://iot.ideyee.com/business/warn/getPage | | | |
| 请求方式 | GET | | | |
| 请求参数 | 字段名 | 字段类型 | 描述 | 备注 |
| devType | String（多个 , 分割） | 站点状态（0=全部，1=电池，2=BESS，3=网关，4=智能电表0,5=温度，6=湿度，7=门禁，8=烟感） |  |
| alarmType | String（多个，分割） |  |  |
| level | int | 等级 |  |
| state | int | -1=未读,0=未修复,1=已修复,2=已读,3=已经确认,4=未确认,  不传=全部 |  |
| search | String | 站点搜索 |  |
| startTime | long | 开始时间(ms) | 必填 |
| endTime | long | 结束时间(ms) | 必填 |
|  | sn | String | 设备编号,指定设备查询 |  |
| 返回JSON示例 | {  "code": 0,  "data": {  "list": [  {  "alarmInfo": "单体电压差(充电48小时后)连续3次>480.0mV",  "alarmType": 4,  "batGrpSn": "489-batGrp-1",  "batSn": "489-batGrp-1-18",  "color": "#13C38C",  "confirmTime": 0,  "confirmUser": null,  "dataType": 0,  "dateTime": 1524929871000,  "devType": 1,  "deviceName": "电池组-1第18节电池",  "diagnosisNotice": false,  "disStartTime": 0,  "discharge": false,  "hasConfirmBtn": true,  "hasSnapshotsBtn": true,  "hasSuggestBtn": true,  "id": "88e75e1cf733b14bbde88ff39564bac2",  "level": 3,  "msgType": 0,  "readState": 0,  "recoverState": 1,  "siteId": 489,  "siteName": "齐鲁高速泰安泰莱收费站机房",  "sn": "489-batGrp-1",  "state": 0,  "suggestion": "建议结合内阻判断有无劣化单体，可通过德逸BESS修复，或进行数轮维护性放电和均充"  },  {  "alarmInfo": "单体电压差(充电48小时后)连续3次>480.0mV",  "alarmType": 4,  "batGrpSn": "489-batGrp-1",  "batSn": "489-batGrp-1-19",  "color": "#13C38C",  "confirmTime": 0,  "confirmUser": null,  "dataType": 0,  "dateTime": 1524929871000,  "devType": 1,  "deviceName": "电池组-1第19节电池",  "diagnosisNotice": false,  "disStartTime": 0,  "discharge": false,  "hasConfirmBtn": true,  "hasSnapshotsBtn": true,  "hasSuggestBtn": true,  "id": "06ec3de1bc69cff78502c5e9600400bc",  "level": 3,  "msgType": 0,  "readState": 0,  "recoverState": 1,  "siteId": 489,  "siteName": "齐鲁高速泰安泰莱收费站机房",  "sn": "489-batGrp-1",  "state": 0,  "suggestion": "建议结合内阻判断有无劣化单体，可通过德逸BESS修复，或进行数轮维护性放电和均充"  },  {  "alarmInfo": "单体电压差(充电48小时后)连续3次>480.0mV",  "alarmType": 4,  "batGrpSn": "489-batGrp-1",  "batSn": "489-batGrp-1-28",  "color": "#13C38C",  "confirmTime": 0,  "confirmUser": null,  "dataType": 0,  "dateTime": 1524929637000,  "devType": 1,  "deviceName": "电池组-1第28节电池",  "diagnosisNotice": false,  "disStartTime": 0,  "discharge": false,  "hasConfirmBtn": true,  "hasSnapshotsBtn": true,  "hasSuggestBtn": true,  "id": "3f435b1694a1af360fc6ee779074b876",  "level": 3,  "msgType": 0,  "readState": 0,  "recoverState": 1,  "siteId": 489,  "siteName": "齐鲁高速泰安泰莱收费站机房",  "sn": "489-batGrp-1",  "state": 0,  "suggestion": "建议结合内阻判断有无劣化单体，可通过德逸BESS修复，或进行数轮维护性放电和均充"  },  {  "alarmInfo": "单体电压差(充电48小时后)连续3次>480.0mV恢复正常",  "alarmType": 4,  "batGrpSn": "489-batGrp-1",  "batSn": "489-batGrp-1-28",  "color": "#13C38C",  "confirmTime": 0,  "confirmUser": null,  "dataType": 0,  "dateTime": 1524928933000,  "devType": 1,  "deviceName": "电池组-1第28节电池",  "diagnosisNotice": false,  "disStartTime": 0,  "discharge": false,  "hasConfirmBtn": false,  "hasSnapshotsBtn": true,  "hasSuggestBtn": false,  "id": "381d77db544ae52fbd47ba4df89bcfc1",  "level": 0,  "msgType": 1,  "readState": 0,  "recoverState": 1,  "siteId": 489,  "siteName": "齐鲁高速泰安泰莱收费站机房",  "sn": "489-batGrp-1",  "state": 0,  "suggestion": "建议结合内阻判断有无劣化单体，可通过德逸BESS修复，或进行数轮维护性放电和均充"  },  {  "alarmInfo": "单体电压差(充电48小时后)连续3次>480.0mV恢复正常",  "alarmType": 4,  "batGrpSn": "489-batGrp-1",  "batSn": "489-batGrp-1-18",  "color": "#13C38C",  "confirmTime": 0,  "confirmUser": null,  "dataType": 0,  "dateTime": 1524928855000,  "devType": 1,  "deviceName": "电池组-1第18节电池",  "diagnosisNotice": false,  "disStartTime": 0,  "discharge": false,  "hasConfirmBtn": false,  "hasSnapshotsBtn": true,  "hasSuggestBtn": false,  "id": "624b155b3787b7e441394fb345afbc34",  "level": 0,  "msgType": 1,  "readState": 0,  "recoverState": 1,  "siteId": 489,  "siteName": "齐鲁高速泰安泰莱收费站机房",  "sn": "489-batGrp-1",  "state": 0,  "suggestion": "建议结合内阻判断有无劣化单体，可通过德逸BESS修复，或进行数轮维护性放电和均充"  },  {  "alarmInfo": "单体电压差(充电48小时后)连续3次>480.0mV恢复正常",  "alarmType": 4,  "batGrpSn": "489-batGrp-1",  "batSn": "489-batGrp-1-19",  "color": "#13C38C",  "confirmTime": 0,  "confirmUser": null,  "dataType": 0,  "dateTime": 1524928855000,  "devType": 1,  "deviceName": "电池组-1第19节电池",  "diagnosisNotice": false,  "disStartTime": 0,  "discharge": false,  "hasConfirmBtn": false,  "hasSnapshotsBtn": true,  "hasSuggestBtn": false,  "id": "49277a877c2658723c4ec61d429e3523",  "level": 0,  "msgType": 1,  "readState": 0,  "recoverState": 1,  "siteId": 489,  "siteName": "齐鲁高速泰安泰莱收费站机房",  "sn": "489-batGrp-1",  "state": 0,  "suggestion": "建议结合内阻判断有无劣化单体，可通过德逸BESS修复，或进行数轮维护性放电和均充"  },  {  "alarmInfo": "单体电压差(充电48小时后)连续3次>480.0mV恢复正常",  "alarmType": 4,  "batGrpSn": "489-batGrp-1",  "batSn": "489-batGrp-1-26",  "color": "#13C38C",  "confirmTime": 0,  "confirmUser": null,  "dataType": 0,  "dateTime": 1524927910000,  "devType": 1,  "deviceName": "电池组-1第26节电池",  "diagnosisNotice": false,  "disStartTime": 0,  "discharge": false,  "hasConfirmBtn": false,  "hasSnapshotsBtn": true,  "hasSuggestBtn": false,  "id": "3191dc2c660814db1c012a4db294b6e0",  "level": 0,  "msgType": 1,  "readState": 0,  "recoverState": 1,  "siteId": 489,  "siteName": "齐鲁高速泰安泰莱收费站机房",  "sn": "489-batGrp-1",  "state": 0,  "suggestion": "建议结合内阻判断有无劣化单体，可通过德逸BESS修复，或进行数轮维护性放电和均充"  },  {  "alarmInfo": "单体电压差(充电48小时后)连续3次>480.0mV",  "alarmType": 4,  "batGrpSn": "489-batGrp-1",  "batSn": "489-batGrp-1-26",  "color": "#13C38C",  "confirmTime": 0,  "confirmUser": null,  "dataType": 0,  "dateTime": 1524925786000,  "devType": 1,  "deviceName": "电池组-1第26节电池",  "diagnosisNotice": false,  "disStartTime": 0,  "discharge": false,  "hasConfirmBtn": true,  "hasSnapshotsBtn": true,  "hasSuggestBtn": true,  "id": "3c4dfc43c7bde69974a4511ec49d6e2f",  "level": 3,  "msgType": 0,  "readState": 0,  "recoverState": 1,  "siteId": 489,  "siteName": "齐鲁高速泰安泰莱收费站机房",  "sn": "489-batGrp-1",  "state": 0,  "suggestion": "建议结合内阻判断有无劣化单体，可通过德逸BESS修复，或进行数轮维护性放电和均充"  },  {  "alarmInfo": "单体电压差(充电48小时后)连续3次>480.0mV恢复正常",  "alarmType": 4,  "batGrpSn": "489-batGrp-1",  "batSn": "489-batGrp-1-26",  "color": "#13C38C",  "confirmTime": 0,  "confirmUser": null,  "dataType": 0,  "dateTime": 1524919976000,  "devType": 1,  "deviceName": "电池组-1第26节电池",  "diagnosisNotice": false,  "disStartTime": 0,  "discharge": false,  "hasConfirmBtn": false,  "hasSnapshotsBtn": true,  "hasSuggestBtn": false,  "id": "c0fdd8a30d5f9d576ca6c52a2ccddcee",  "level": 0,  "msgType": 1,  "readState": 0,  "recoverState": 1,  "siteId": 489,  "siteName": "齐鲁高速泰安泰莱收费站机房",  "sn": "489-batGrp-1",  "state": 0,  "suggestion": "建议结合内阻判断有无劣化单体，可通过德逸BESS修复，或进行数轮维护性放电和均充"  },  {  "alarmInfo": "单体电压差(充电48小时后)连续3次>480.0mV",  "alarmType": 4,  "batGrpSn": "489-batGrp-1",  "batSn": "489-batGrp-1-26",  "color": "#13C38C",  "confirmTime": 0,  "confirmUser": null,  "dataType": 0,  "dateTime": 1524908730000,  "devType": 1,  "deviceName": "电池组-1第26节电池",  "diagnosisNotice": false,  "disStartTime": 0,  "discharge": false,  "hasConfirmBtn": true,  "hasSnapshotsBtn": true,  "hasSuggestBtn": true,  "id": "ccd0d6ce9c76548d1228c58c938e5ec3",  "level": 3,  "msgType": 0,  "readState": 0,  "recoverState": 1,  "siteId": 489,  "siteName": "齐鲁高速泰安泰莱收费站机房",  "sn": "489-batGrp-1",  "state": 0,  "suggestion": "建议结合内阻判断有无劣化单体，可通过德逸BESS修复，或进行数轮维护性放电和均充"  }  ],  "maxPage": 116,  "nowPage": 1,  "pageSize": 10,  "state": 0,  "totalCount": 1153  },  "message": "请求成功",  "success": true  } | | | |
| 字段说明 | "alarmInfo": 告警信息  "alarmType": 告警类型  "batGrpSn": 电池组编号  "batSn": 电池编号(电池组编号+电池号)  "color": 告警颜色  "confirmTime": 告警确认时间  "confirmUser": 告警确认人  "dateTime": 告警时间,  "devType": 设备类型,  "deviceName": 设备名称,  "id": 告警id,  "level": 告警等级  "msgType": 消息类型 0=告警消息, 1=恢复通知  "recoverState": 恢复状态 0=异常中,1=恢复正常  "siteId": 站点ID  "siteName":站点名称  "sn": 设备sn  "state": 0,  "suggestion": 告警处理建议 | | | |

### 获取电池组实时监控数据

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请求地址 | http://iot.ideyee.com/business/battery/getBatGrpInfo | | | |
| 请求方式 | GET | | | |
| 请求参数 | 字段名 | 字段类型 | 描述 | 备注 |
| sn | String | 设备序号 | 必填 |
| state | int | 1=往前,2=往后,不传=当前最新 |  |
| 返回JSON示例 | {  "code": 0,  "data": {  "address": "成都",  "aver": 5657,  "avet": 29166,  "avev": 1454,  "avgTemperature": false,  "balanceWarn": false,  "batCnt": 24,  "batData": [  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 1,  "nowstate": 12,  "opWarnState": 0,  "opstate": 12,  "over\_hot": false,  "r": 7565,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 12,  "t": 29800,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1704,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 3  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 2,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 6278,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 29600,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1462,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#2BA5E3",  "bla\_desc": null,  "desc": null,  "max\_min": 1,  "no": 3,  "nowstate": 12,  "opWarnState": 0,  "opstate": 12,  "over\_hot": false,  "r": 6417,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 12,  "t": 29700,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1738,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 3  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 2,  "no": 4,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 6246,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 29700,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1144,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 5,  "nowstate": 12,  "opWarnState": 0,  "opstate": 12,  "over\_hot": false,  "r": 5593,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 12,  "t": 29800,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1590,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 3  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 6,  "nowstate": 12,  "opWarnState": 0,  "opstate": 12,  "over\_hot": false,  "r": 5967,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 12,  "t": 29900,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1644,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 3  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 7,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 12,  "over\_hot": false,  "r": 4559,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 12,  "t": 30000,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1421,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 3  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 8,  "nowstate": 12,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 4147,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 29900,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1502,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 3  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 9,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 7961,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 28100,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1157,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 10,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 5327,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 28000,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1473,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 11,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 5957,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 28200,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1473,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 12,  "nowstate": 12,  "opWarnState": 0,  "opstate": 12,  "over\_hot": false,  "r": 8278,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 12,  "t": 28100,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1538,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 3  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 13,  "nowstate": 12,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 5637,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 28000,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1550,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 14,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 6008,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 28400,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1289,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 15,  "nowstate": 12,  "opWarnState": 0,  "opstate": 12,  "over\_hot": false,  "r": 5143,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 12,  "t": 28100,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1566,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 3  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 16,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 5159,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 29900,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1337,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 17,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 4842,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 28000,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1417,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 18,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 8864,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 28100,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1174,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 19,  "nowstate": 12,  "opWarnState": 0,  "opstate": 12,  "over\_hot": false,  "r": 5612,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 12,  "t": 29800,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1583,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 3  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 20,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 4388,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 29800,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1389,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 21,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 3361,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 29700,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1392,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 22,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 3786,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 29900,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1442,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 23,  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "over\_hot": false,  "r": 3504,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 65548,  "t": 29800,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1377,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 19  },  {  "bla\_color": "#99D6F5",  "bla\_desc": null,  "desc": null,  "max\_min": 0,  "no": 24,  "nowstate": 12,  "opWarnState": 0,  "opstate": 12,  "over\_hot": false,  "r": 5174,  "r\_color": "#99D6F5",  "r\_desc": null,  "rstate": 0,  "state": 12,  "t": 29700,  "t\_color": "#99D6F5",  "t\_desc": null,  "tstate": 0,  "v": 1542,  "v\_color": "#99D6F5",  "v\_desc": null,  "vstate": 0,  "warnState": 3  }  ],  "bat\_v": 2,  "borough": "武侯区",  "c": 400000,  "capacity": null,  "dataType": 0,  "disStartTime": 0,  "envt": 297,  "estimate\_capacity": null,  "grpState": 65548,  "hideT": false,  "maxt": 300,  "maxv": 8864,  "minv": 1144,  "municipal": "成都市",  "name": "电池组-3",  "nowstate": 65548,  "opWarnState": 0,  "opstate": 65548,  "province": "四川省",  "resistanceWarn": false,  "site": "新版网关测试２",  "siteId": 325,  "sn": "325-batGrp-3",  "state": 0,  "temperatureWarn": false,  "time": 1526870001000,  "totalCount": 0,  "totalCurrentWarn": false,  "totalVoltageWarn": false,  "totv": 34900,  "voltageWarn": false,  "vstate": 1,  "warnState": 19  },  "message": "请求成功",  "success": true  } | | | |
| 字段说明 | "data": {  "address": 站点地址,  "aver": 平均内阻(bat\_v= 2 0.001mΩ;bat\_v= 12 0.01mΩ),  "avet": 平均温度(0.001℃),  "avev": 平均电压(单位1mv),  "batCnt": 电池节数,  "bat\_v": 单节电池标准电压(n=nV),  "borough": 区/县级,  "c":电流 (0.000 001 A),  "grpState": 电池组状态(0=正常,其它异常),  "municipal": 市级,  "name": 电池组名称  "province": "四川省",  "resistanceWarn": 内阻存在异常,  "site": 站点名称,  "siteId": 站点ID,  "sn": 电池组序号,  "temperatureWarn": 温度存在异常,  "time": 数据时间戳,  "totalCurrentWarn": 总电流存在异常,  "totalVoltageWarn": 总电压存在异常,  "voltageWarn": 电压存在异常,  "warnState": 存在异常 0=正常,其它=异常  "batData": [  {  "bla\_color": "#99D6F5",  "bla\_desc": 均衡性描述,  "desc":描述,  "no":电池编号,  "r": 内阻,  "t": 温度,  "v": 电压,  "warnState": 单节电池状态0=正常,非0=异常,bit-state(32位 详细见附表1)  }, | | | |

### 获取电池组安装信息

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请求地址 | http://iot.ideyee.com/business/battery/getBattery | | | |
| 请求方式 | GET | | | |
| 请求参数 | 字段名 | 字段类型 | 描述 | 备注 |
| sn | String | 设备序号 | 必填 |
| 返回JSON示例 | {  "code": 0,  "data": {  "batch": "2014-10",//批次  "batchId": 182,//批次ID  "batteryCount": 32,//电池数量  "batteryModel": "GFM-100",//电池型号  "batteryType": 12,//电池类型 12V,2V等  "batteryTypeName": "12V",//电池类型名称  "bessInstallTime": 1523376000000,//bess安装时间  "brandId": 50,//品牌ID  "brandName": "宝迪",//品牌  "brms": 1,//1=安装有BRMS;0=未安装  "capacitance": 100,//标称容量  "fullElectricity": true,//上点时是否满电  "gatewayId": 488,//网关ID  "hall": 1,//是否安装HALL 1=是 0=否  "hallType": 2,//霍尔类型  "id": 546,  "modelId": 131,//型号ID  "name": "电池组-1",//名称  "number": 1,//编号  "powerType": 2,//电源类型 1=开关电源 ,2=UPS  "remark": null,  "resistance": 6.5,//标称内阻  "serialNumber": "489-batGrp-1",//电池编号  "siteId": 489,//站点ID  "sitePowerId": 160,//电源系统ID  "startDate": 1385740800000,  },  "message": "请求成功",  "success": true  } | | | |

### 获取电池组诊断

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请求地址 | http://iot.ideyee.com/business/battery/getDiagnosisDetail | | | |
| 请求方式 | GET | | | |
| 请求参数 | 字段名 | 字段类型 | 描述 | 备注 |
| sn | String | 设备序号 | 必填 |
| 返回json | {  "code": 0,  "data": {  "batteryDescriptions": [  {  "color": "#FECB00",  "description": "第1节电池同时存在断格开路和脱粉短路现象，建议更换",  "show": false  },  {  "color": "#FECB00",  "description": "第2节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第2节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换",  "show": false  },  {  "color": "#FECB00",  "description": "第3节电池同时存在断格开路和脱粉短路现象，建议更换",  "show": false  },  {  "color": "#FECB00",  "description": "第4节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第4节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换",  "show": false  },  {  "color": "#FECB00",  "description": "第5节电池同时存在断格开路和脱粉短路现象，建议更换",  "show": false  },  {  "color": "#FECB00",  "description": "第6节电池同时存在断格开路和脱粉短路现象，建议更换",  "show": false  },  {  "color": "#FECB00",  "description": "第7节电池同时存在断格开路和脱粉短路现象，建议更换",  "show": false  },  {  "color": "#FECB00",  "description": 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"description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.54"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "4.64"  }  ],  "suggestion": "第11节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第11节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换"  },  {  "manualProblem": null,  "number": 12,  "problems": [  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.58"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "5.1"  }  ],  "suggestion": "第12节电池同时存在断格开路和脱粉短路现象，建议更换"  },  {  "manualProblem": null,  "number": 13,  "problems": [  {  "description": "电池组浮充状态时当前电压与最高电压相差260mV",  "item": "单体电压差（充电48小时后）",  "reference": "260",  "unit": "mV",  "value": "430.0"  },  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.55"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "4.1"  }  ],  "suggestion": "第13节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第13节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换"  },  {  "manualProblem": null,  "number": 14,  "problems": [  {  "description": "电池组浮充状态时当前电压与最高电压相差260mV",  "item": "单体电压差（充电48小时后）",  "reference": "260",  "unit": "mV",  "value": "506.0"  },  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.39"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "4.78"  }  ],  "suggestion": "第14节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第14节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换"  },  {  "manualProblem": null,  "number": 15,  "problems": [  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "0.00"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "3.98"  }  ],  "suggestion": "第15节电池同时存在断格开路和脱粉短路现象，建议更换"  },  {  "manualProblem": null,  "number": 16,  "problems": [  {  "description": "电池组浮充状态时当前电压与最高电压相差260mV",  "item": "单体电压差（充电48小时后）",  "reference": "260",  "unit": "mV",  "value": "286.0"  },  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.43"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "4.03"  }  ],  "suggestion": "第16节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第16节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换"  },  {  "manualProblem": null,  "number": 17,  "problems": [  {  "description": "电池组浮充状态时当前电压与最高电压相差260mV",  "item": "单体电压差（充电48小时后）",  "reference": "260",  "unit": "mV",  "value": "354.0"  },  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.44"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "4.11"  }  ],  "suggestion": "第17节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第17节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换"  },  {  "manualProblem": null,  "number": 18,  "problems": [  {  "description": "电池组浮充状态时当前电压与最高电压相差260mV",  "item": "单体电压差（充电48小时后）",  "reference": "260",  "unit": "mV",  "value": "653.0"  },  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.45"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "6.27"  }  ],  "suggestion": "第18节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第18节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换"  },  {  "manualProblem": null,  "number": 19,  "problems": [  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.45"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "4.56"  }  ],  "suggestion": "第19节电池同时存在断格开路和脱粉短路现象，建议更换"  },  {  "manualProblem": null,  "number": 20,  "problems": [  {  "description": "电池组浮充状态时当前电压与最高电压相差260mV",  "item": "单体电压差（充电48小时后）",  "reference": "260",  "unit": "mV",  "value": "474.0"  },  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.40"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "3.73"  }  ],  "suggestion": "第20节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第20节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换"  },  {  "manualProblem": null,  "number": 21,  "problems": [  {  "description": "电池组浮充状态时当前电压与最高电压相差260mV",  "item": "单体电压差（充电48小时后）",  "reference": "260",  "unit": "mV",  "value": "471.0"  },  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.40"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "4.21"  }  ],  "suggestion": "第21节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第21节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换"  },  {  "manualProblem": null, 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"reference": "0.20",  "unit": "mΩ",  "value": "5.07"  }  ],  "suggestion": "第23节电池同时存在断格开路和脱粉短路现象，建议更换\n电池组浮充状态下单体电池间电压差过大，第23节电池电压偏低，建议通过德逸BESS修复，或进行数轮核对性放电和均充，放电过程中关注其放电电压，若放电电压低于平均值且几轮充放电循环后无改善，建议更换"  },  {  "manualProblem": null,  "number": 24,  "problems": [  {  "description": "单体电压小于2.00V",  "item": "单体电压（充电48小时后）",  "reference": "2.00",  "unit": "V",  "value": "1.41"  },  {  "description": "按内阻大小排序，取中间一半数量单体的平均值；若平均值大于标称内阻\*2，则参考值为标称内阻，否则参考值为平均值\*2",  "item": "单体内阻",  "reference": "0.20",  "unit": "mΩ",  "value": "4.91"  }  ],  "suggestion": "第24节电池同时存在断格开路和脱粉短路现象，建议更换"  }  ]  },  "message": "请求成功",  "success": true  } | | | |

### 获取电池组诊断历史

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请求地址 | http://iot.ideyee.com/business/battery/getDiagnosisHistory | | | |
| 请求方式 | GET | | | |
| 请求参数 | 字段名 | 字段类型 | 描述 | 备注 |
| sn | String | 设备序号 | 必填 |
| startTime | long | 开始时间(ms) | 必填 |
| endTime | long | 结束时间(ms) | 必填 |
| nowPage | int | 当前页 | 必填 |
| pageSize | int | 每页条目 | 必填 |
| 返回JSON示例 | {  "code": 0,  "data": {  "list": [  {  "alarmType": 4,  "change": "电池组-3第12节电池浮充电压均衡性恢复正常 ",  "dataType": 0,  "dateTime": 1526869903000,  "devType": 1,  "disStartTime": null,  "discharge": false,  "siteId": 325,  "siteName": "新版网关测试２",  "sn": "325-batGrp-3"  },  {  "alarmType": 4,  "change": "电池组-3第24节电池浮充电压均衡性恢复正常 ",  "dataType": 0,  "dateTime": 1526869903000,  "devType": 1,  "disStartTime": null,  "discharge": false,  "siteId": 325,  "siteName": "新版网关测试２",  "sn": "325-batGrp-3"  },  {  "alarmType": 4,  "change": "电池组-3第9节电池浮充电压均衡性异常,电池电压偏低",  "dataType": 0,  "dateTime": 1526869707000,  "devType": 1,  "disStartTime": null,  "discharge": false,  "siteId": 325,  "siteName": "新版网关测试２",  "sn": "325-batGrp-3"  },  {  "alarmType": 4,  "change": "电池组-3第15节电池浮充电压均衡性恢复正常 ",  "dataType": 0,  "dateTime": 1526869707000,  "devType": 1,  "disStartTime": null,  "discharge": false,  "siteId": 325,  "siteName": "新版网关测试２",  "sn": "325-batGrp-3"  },  {  "alarmType": 4,  "change": "电池组-3第17节电池浮充电压均衡性异常,电池电压偏低",  "dataType": 0,  "dateTime": 1526869707000,  "devType": 1,  "disStartTime": null,  "discharge": false,  "siteId": 325,  "siteName": "新版网关测试２",  "sn": "325-batGrp-3"  },  {  "alarmType": 4,  "change": "电池组-3第14节电池浮充电压均衡性异常,电池电压偏低",  "dataType": 0,  "dateTime": 1526869606000,  "devType": 1,  "disStartTime": null,  "discharge": false,  "siteId": 325,  "siteName": "新版网关测试２",  "sn": "325-batGrp-3"  },  {  "alarmType": 4,  "change": "电池组-3第13节电池浮充电压均衡性异常,电池电压偏低",  "dataType": 0,  "dateTime": 1526869309000,  "devType": 1,  "disStartTime": null,  "discharge": false,  "siteId": 325,  "siteName": "新版网关测试２",  "sn": "325-batGrp-3"  },  {  "alarmType": 4,  "change": "电池组-3第18节电池浮充电压均衡性异常,电池电压偏低",  "dataType": 0,  "dateTime": 1526869309000,  "devType": 1,  "disStartTime": null,  "discharge": false,  "siteId": 325,  "siteName": "新版网关测试２",  "sn": "325-batGrp-3"  },  {  "alarmType": 4,  "change": "电池组-3第4节电池浮充电压均衡性异常,电池电压偏低",  "dataType": 0,  "dateTime": 1526869113000,  "devType": 1,  "disStartTime": null,  "discharge": false,  "siteId": 325,  "siteName": "新版网关测试２",  "sn": "325-batGrp-3"  },  {  "alarmType": 4,  "change": "电池组-3第24节电池浮充电压均衡性异常,电池电压偏低",  "dataType": 0,  "dateTime": 1526869113000,  "devType": 1,  "disStartTime": null,  "discharge": false,  "siteId": 325,  "siteName": "新版网关测试２",  "sn": "325-batGrp-3"  }  ],  "maxPage": 12,  "nowPage": 1,  "pageSize": 10,  "state": 0,  "totalCount": 111  },  "message": "请求成功",  "success": true  } | | | |

### 获取站点电源系统的充放电记录列表

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请求地址 | http://iot.ideyee.com/business/siteCapacityDischarge/getDischargePage | | | |
| 请求方式 | GET | | | |
| 请求参数 | 字段名 | 字段类型 | 描述 | 备注 |
| siteId | int | 站点id | 必填 |
| powerType | int | 电源系统ID | 必填 |
| startDate | long | 开始时间 | 必填 |
| endDate | long | 结束时间 | 必填 |
| nowPage | int | 当前页 | 必填 |
| pageSize | int | 每页条目 | 必填 |
| 返回JSON示例 | {  "code": 0,  "data": {  "list": [  {  "actual": "",  "actualArray": [    ],  "authPerson": "/",  "badBattery": "/",  "current": 0.94,  "dataType": 2,  "difference": "",  "differenceArray": [    ],  "downVoltage": "",  "downVoltageArray": [  null,  null,  null  ],  "electricity": 45.13,  "endTime": 1526630242000,  "endVoltage": 33.8,  "expected": "",  "expectedArray": [    ],  "id": null,  "infoType": 2,  "infoTypeStr": "充电",  "nameAndAccount": null,  "powerType": 26,  "remark": null,  "startVoltage": 46.6,  "startime": 1526457185000,  "state": 2,  "stateStr": "充电完成",  "testData": false,  "type": null,  "voltage": "46.6V~33.8V"  },  {  "actual": "",  "actualArray": [    ],  "authPerson": "/",  "badBattery": "/",  "current": 3.39,  "dataType": 2,  "difference": "",  "differenceArray": [    ],  "downVoltage": "",  "downVoltageArray": [  null,  null,  null  ],  "electricity": 80.6,  "endTime": 1526456790000,  "endVoltage": 46.6,  "expected": "",  "expectedArray": [    ],  "id": null,  "infoType": 1,  "infoTypeStr": "放电",  "nameAndAccount": null,  "powerType": 26,  "remark": null,  "startVoltage": 53.7,  "startime": 1526371246000,  "state": 1,  "stateStr": "放电结束",  "testData": false,  "type": "停电",  "voltage": "53.7V~46.6V"  },  {  "actual": "",  "actualArray": [    ],  "authPerson": "/",  "badBattery": "/",  "current": 0.39,  "dataType": 2,  "difference": "",  "differenceArray": [    ],  "downVoltage": "",  "downVoltageArray": [  null,  null,  null  ],  "electricity": 2.79,  "endTime": 1526371147000,  "endVoltage": 53.7,  "expected": "",  "expectedArray": [    ],  "id": null,  "infoType": 2,  "infoTypeStr": "充电",  "nameAndAccount": null,  "powerType": 26,  "remark": null,  "startVoltage": 47.6,  "startime": 1526345699000,  "state": 2,  "stateStr": "充电完成",  "testData": false,  "type": null,  "voltage": "47.6V~53.7V"  },  {  "actual": "",  "actualArray": [    ],  "authPerson": "/",  "badBattery": "/",  "current": 3.62,  "dataType": 2,  "difference": "",  "differenceArray": [    ],  "downVoltage": "",  "downVoltageArray": [  null,  null,  null  ],  "electricity": 81.91,  "endTime": 1526345203000,  "endVoltage": 47.6,  "expected": "",  "expectedArray": [    ],  "id": null,  "infoType": 1,  "infoTypeStr": "放电",  "nameAndAccount": null,  "powerType": 26,  "remark": null,  "startVoltage": 54.9,  "startime": 1526263857000,  "state": 1,  "stateStr": "放电结束",  "testData": false,  "type": "停电",  "voltage": "54.9V~47.6V"  },  {  "actual": "",  "actualArray": [    ],  "authPerson": "/",  "badBattery": "/",  "current": 2.36,  "dataType": 2,  "difference": "",  "differenceArray": [    ],  "downVoltage": "",  "downVoltageArray": [  null,  null,  null  ],  "electricity": 114.26,  "endTime": 1524969246000,  "endVoltage": 51.7,  "expected": "",  "expectedArray": [    ],  "id": null,  "infoType": 2,  "infoTypeStr": "充电",  "nameAndAccount": null,  "powerType": 26,  "remark": null,  "startVoltage": 53.5,  "startime": 1524795308000,  "state": 2,  "stateStr": "充电完成",  "testData": false,  "type": null,  "voltage": "53.5V~51.7V"  },  {  "actual": "",  "actualArray": [    ],  "authPerson": "/",  "badBattery": "/",  "current": 0,  "dataType": 2,  "difference": "",  "differenceArray": [    ],  "downVoltage": "",  "downVoltageArray": [  null,  null,  null  ],  "electricity": 0,  "endTime": 1524791334000,  "endVoltage": 46.7,  "expected": "",  "expectedArray": [    ],  "id": null,  "infoType": 1,  "infoTypeStr": "放电",  "nameAndAccount": null,  "powerType": 26,  "remark": null,  "startVoltage": 47,  "startime": 1524735524000,  "state": 1,  "stateStr": "放电结束",  "testData": false,  "type": "停电",  "voltage": "47.0V~46.7V"  }  ],  "maxPage": 1,  "nowPage": 1,  "pageSize": 10,  "state": 0,  "totalCount": 6  },  "message": "请求成功",  "success": true  } | | | |

### 获取站点电源系统的充放电详情

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 请求地址 | http://iot.ideyee.com/business/siteCapacityDischarge/getChargeDetail | | | |
| 请求方式 | GET | | | |
| 请求参数 | 字段名 | 字段类型 | 描述 | 备注 |
| siteId | int | 站点id | 必填 |
| powerType | int | 电源系统ID | 必填 |
| startTime | long | 开始时间 | 必填 |
| dataType | int | 数据类型 | 必填 |

### 附表1

|  |  |
| --- | --- |
| 电池BIT-STATE 详细,多个状态 | ; | |
| 单体电压 | 1 << 0 |
| 单体内阻 | 1 << 1 |
| 单体温度 | 1 << 2 |
| 平均温度 | 1 << 3 |
| 单体电压差 | 1 << 4 |