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全球领先的绿色能源系统解决方案商
GLOBAL LEADING ENERGY SYSTEM SOLUTION PROVIDER

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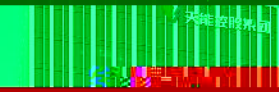
天能

天能

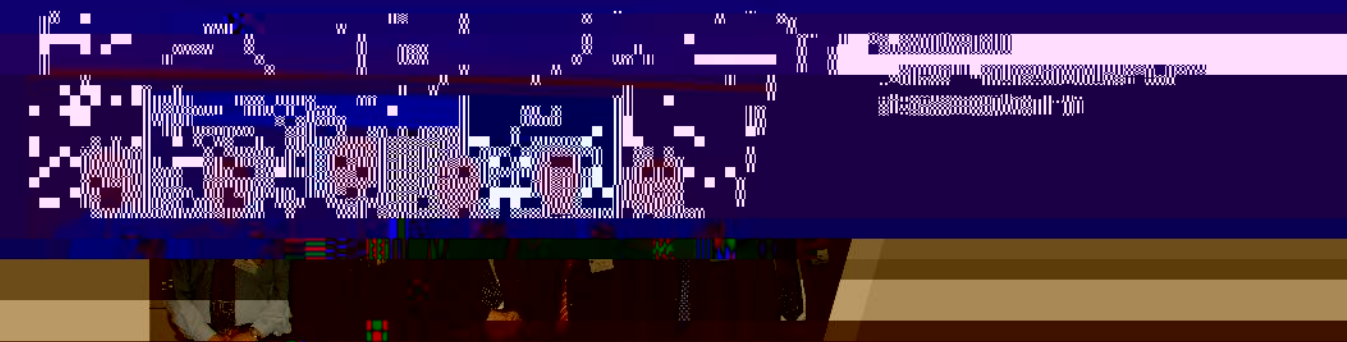
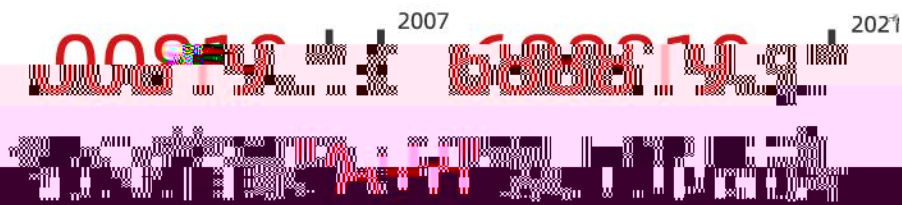
天能储能 赋能未来

天能

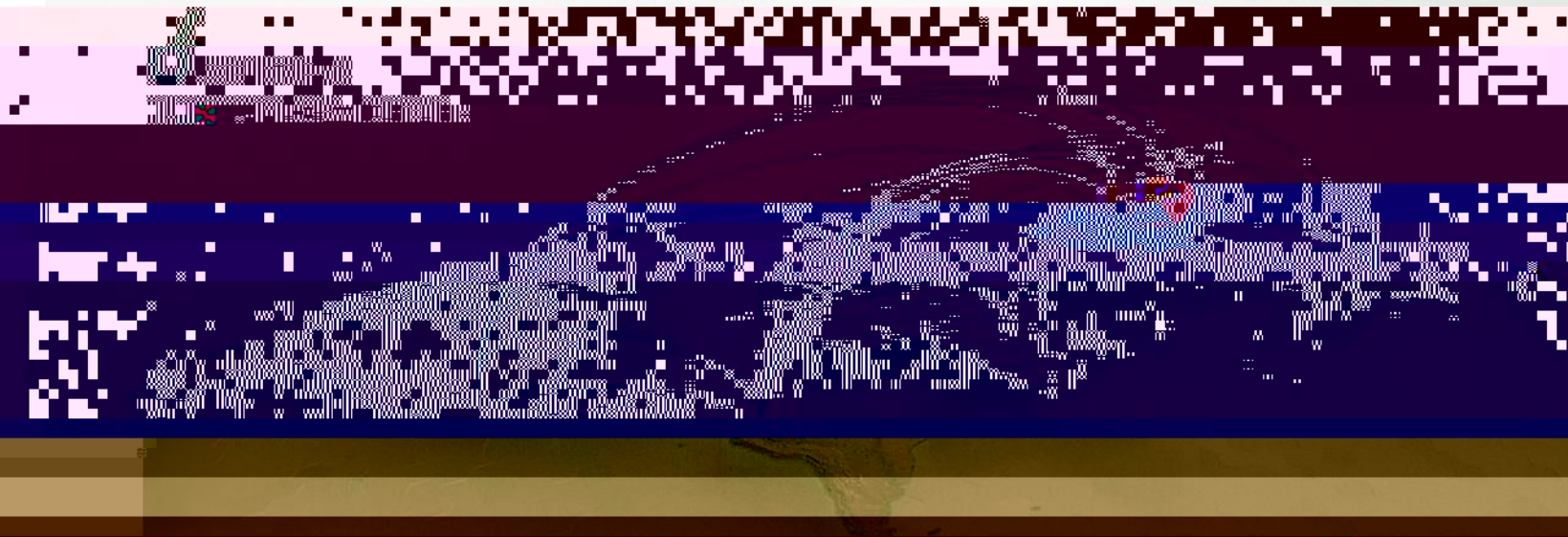
天能储能 赋能未来



| 综合实力



| 全球布局



17

天能集团创始于1986年，总部位于浙江湖州。

天能基地

天能基地

天能基地

1. 专家团队



徐淳川

博士學位



大阪府立大学博士。多年从事燃料电池的关键材料、电池系统及周边技术的研发，在燃料电池催化剂、膜电极生产上色及制膜领域造诣深厚。领导了多项研发项目，部分属世界最先进水平，2019年入选国家第16批“国家级引才计划”。

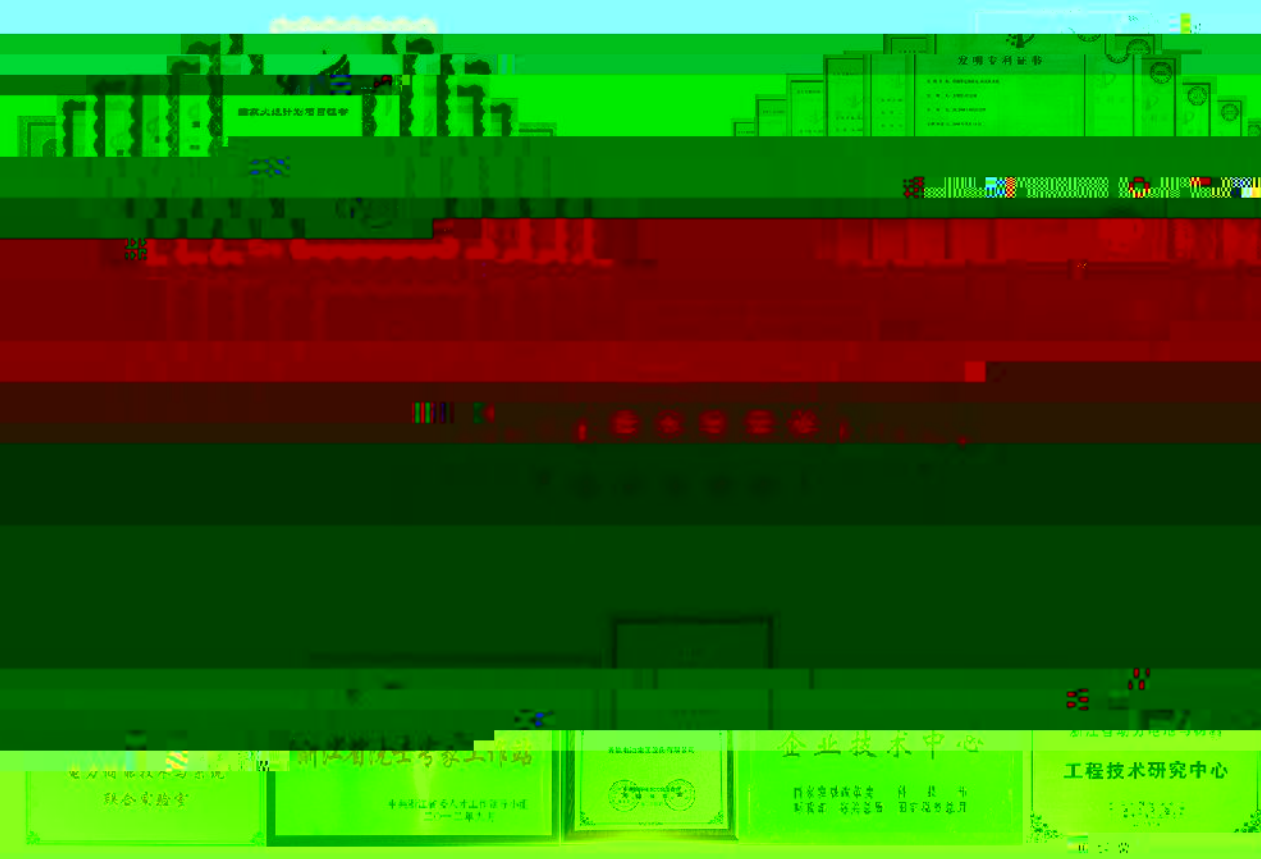
木 佐



阿 广

「餅友頭」

天能股份专利申请数量位列科创板上市企业第



技术中心、国家博士后科研工作站、中国首批轻工业重点实验室、中国轻工业工业设计中心

与国网浙江综合能源服务有限公司组建联合实验室

浙江省重点研发计划项目：分布式配电网智能调控技术研究与应用-基于复合储能及电-气转换的分布式配电网协调调控技术研究与应用

上海大学

设铅基、固态、钠电、燃料电池研究分院，同时布局长兴（南太湖）、湖州德清研发基地，聚焦钒液流电池、钠电池、钠电、燃料电池等应用基础技术，前沿材料和产业化技术研究，开展国际国内创新资源协同攻关和成果转化应用。

修訂版

长寿命

天女

智能化

● 每册定价：20.00元
● 邮费：0.50元
● 电话：010-62601555
● 地址：北京市西城区德胜门内大街28号
● 邮编：100088

上海. 生态网

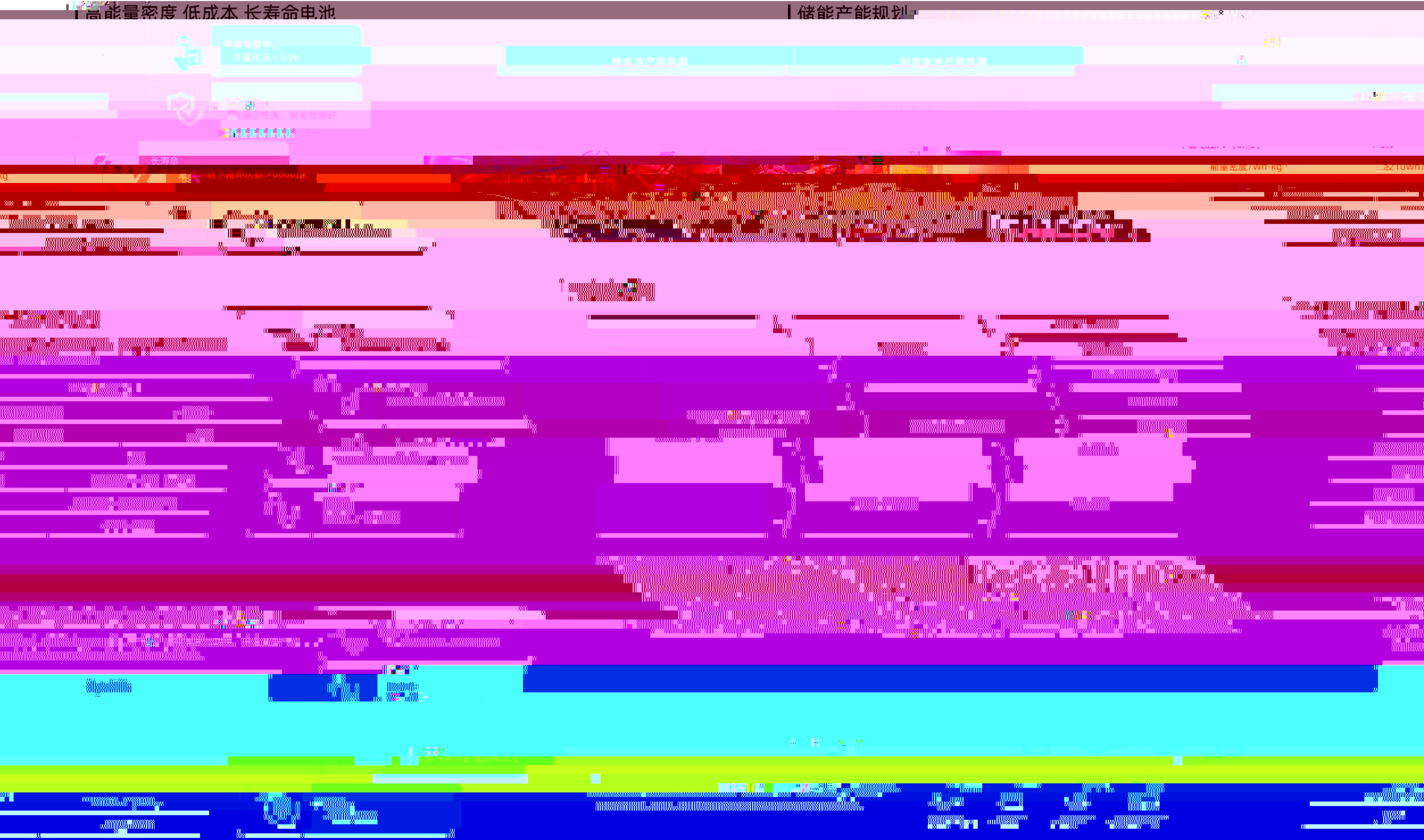
通过简化模组结构，使得电池包体积利用率提15%~20%，零部件数量减少40%，系统效率>88%。

绿色环保锂离子电池处理设备对
废旧锂离子电池的回收，使其发
挥更大的经济效益。提高了锂离

高镍811领先体系，配合业界首创的纳米铆钉技术，在中低温面进行结构加固防护，大幅提升能量密度，有效兼顾高标准安全可靠性。

高能密度 低成本 长寿命电池

储能产能规划



02

储能产品 PRODUCT INTRODUCTION

| 铅炭储能



产品特性

额定电压	12V
额定容量	150Ah@25°C (77°F, 1.80V/cell)
内阻	3.0mΩ@25°C(77°F)
短路电流	1080A(5s)
推荐使用 温度范围	放电 Discharge: -15~+50°C (5~122°F) 充电 Charge: 0~+40°C (32~104°F) 储存 Storage: -15~+40°C (5~104°F) 最佳 Optimum: 25±2°C (77±4°F)

物理特性

材料 Material	端子 Terminal Type	尺寸 Dimensions				重量 Weight
ABS UL94-HB (阻燃 ABS UL94-V0)	I7(M8) 螺栓式	长 Length	宽 Width	高 Height	总高 Total Height	42.0kg (92.6lbs)
		480±2mm (18.9 inch.)	170±2mm (6.69 inch.)	240±2mm (9.45inch.)	246±2mm (9.69 inch.)	

恒流放电参数 (A) @25°C (77°F)

100%	90%	80%	70%	60%	50%	40%	30%	20%	10%	5%	2.5%	1.25%	0.625%	0.3125%	0.15625%	0.078125%	0.0390625%	0.01953125%	0.009765625%	0.0048828125%	0.00244140625%	0.001220703125%	0.0006103515625%	0.00030517578125%	0.000152587890625%	0.0000762939453125%	0.00003814697265625%	0.000019073486328125%	0.0000095367431640625%	0.00000476837158203125%	0.000002384185791015625%	0.0000011920928955078125%	0.00000059604644775390625%	0.000000298023223876953125%	0.0000001490116119384765625%	0.00000007450580596923828125%	0.000000037252902984619140625%	0.0000000186264514923095703125%	0.00000000931322574615478515625%	0.000000004656612873077392578125%	0.0000000023283064365386962890625%	0.00000000116415321826934814453125%	0.000000000582076609134674072265625%	0.0000000002910383045673370361328125%	0.00000000014551915228366851806640625%	0.000000000072759576141834259033203125%	0.0000000000363797880709171295166015625%	0.00000000001818989403545856475830078125%	0.000000000009094947017729282379150390625%	0.0000000000045474735088646411895751953125%	0.00000000000227373675443232059478759765625%	0.000000000001136868377216160297393798828125%	0.0000000000005684341886080801486968994140625%	0.00000000000028421709430404007434844970703125%	0.000000000000142108547152020037174224853515625%	0.0000000000000710542735760100185871124267578125%	0.00000000000003552713678800500929355621337890625%	0.000000000000017763568394002504646778106689453125%	0.0000000000000088817841970012523233890533447265625%	0.00000000000000444089209850062616169452667236328125%	0.000000000000002220446049250313080847263336181640625%	0.0000000000000011102230246251565404236316680908203125%	0.00000000000000055511151231257827021181583340541015625%	0.0000000000000002775557561562891351059079167027053125%	0.0000000000000001387778780781445675529539583513515625%	0.00000000000000006938893903907228377647697917567578125%	0.000000000000000034694469519536141888238489587837890625%	0.0000000000000000173472347597680709441192447939189453125%	0.00000000000000000867361737988403547205962239695947265625%	0.000000000000000004336808689942017736029811198479736328125%	0.0000000000000000021684043449710088680149055992398681640625%	0.00000000000000000108420217248550443400745279961993408203125%	0.000000000000000000542101086242752217003726399809967041015625%	0.00000000000000000027105054312137610850186319990498352053125%	0.000000000000000000135525271560688054250931599952491760265625%	0.0000000000000000000677626357803440271254657999762458801328125%	0.00000000000000000003388131789017201356273289998812294006640625%	0.000000000000000000016940658945086006781366449994061470033203125%	0.0000000000000000000084703294725430033906832249970307350166015625%	0.00000000000000000000423516473627150169534161249851536750830078125%	0.000000000000000000002117582368135750847670806249257683754150390625%	0.0000000000000000000010587911840678754238354031246288418770751953125%	0.00000000000000000000052939559203393771191770156231442093853759765625%	0.000000000000000000000264697796016968855958850781157210469268798828125%	0.0000000000000000000001323488980084844279794253905786052346343994140625%	0.00000000000000000000006617444900424221398971269528930261731719970703125%	0.000000000000000000000033087224502121106994856347644651308658599853515625%	0.0000000000000000000000165436122510605534974281738223256543292999267578125%	0.00000000000000000000000827180612553027674871408691116282716464996337890625%	0.000000000000000000000004135903062765138374357043455581413582324981689453125%	0.0000000000000000000000020679515313825691871785217277907069112124908447265625%	0.00000000000000000000000103397576569128459358926086389535345560624542236328125%	0.000000000000000000000000516987882845642296794630431697676727803122711181640625%	0.0000000000000000000000002584939414228211483973152158488383639015613555908203125%	0.00000000000000000000000012924697071141057419865760792441918195078067779541015625%	0.0000000000000000000000000646234853557052870993288039622095909753903388977053125%	0.00000000000000000000000003231174267785264354966440198110479548769516944885265625%	0.000000000000000000000000016155871338926321774832200990552397743847584724426328125%	0.0000000000000000000000000080779356694631608874161004952761988719237923622131640625%	0.00000000000000000000000000403896783473158044370805024763809943596189618110658203125%	0.000000000000000000000000002019483917365790221854025123819047177980948090553291015625%	0.0000000000000000000000000010097419586828951109270125619095235889904740454541453125%	0.000000000000000000000000000504870979341447555463506280954761794495237022727265625%	0.0000000000000000000000000002524354896707237777317531404773808972476185113636328125%	0.00000000000000000000000000012621774483536188886587657023869044862380925568181640625%	0.000000000000000000000000000063108872417680944432938285119345224311904627840908203125%	0.0000000000000000000000000000315544362088404722164691425596726121559523139204541015625%	0.0000000000000000000000000000157772181044202361082345712798363060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铅炭电性能



储能电芯



TNSA39148100B50

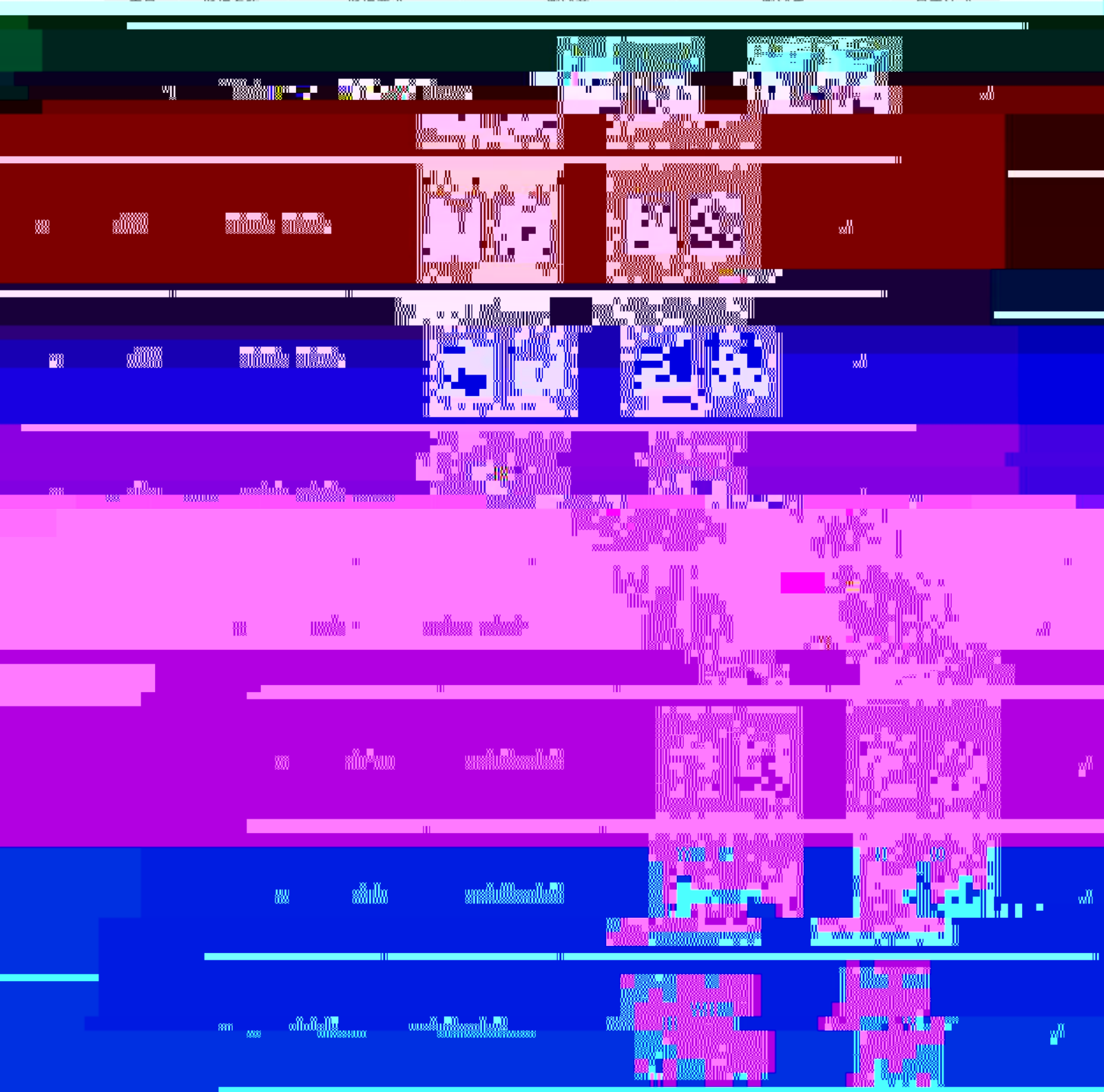


TNSA50140119B100



| 储能电芯安全测试

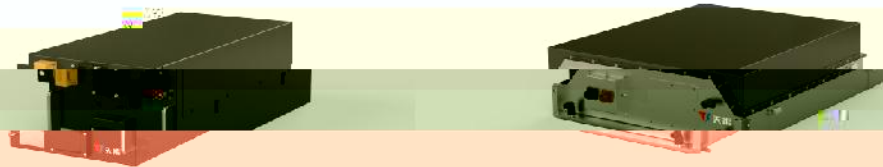
安全性能测试



| 储能电芯检测报告

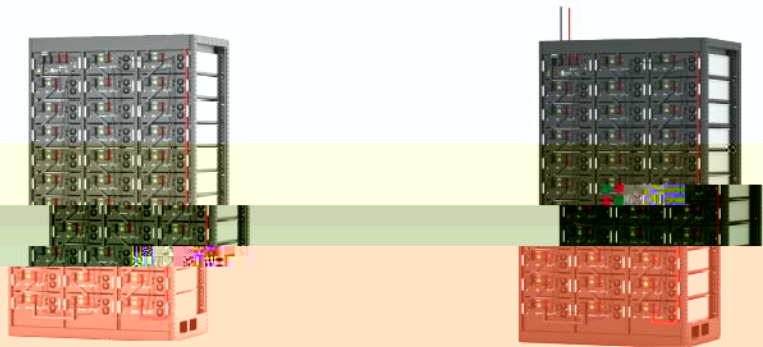


储能模组



产品型号	TNA118-280	TNL152-280
额定容量	14.33kWh	46.59kWh
标称电压	51.2V	166.4V
电芯容量	260Ah	260Ah
工作电压范围	45~65.7V	130~189.8V

储能电池簇



产品型号	TNAC1400-280	TNL1416-280
额定容量	358kWh	373kWh
标称电压	1280V	1331.2V
电芯容量	260Ah	260Ah

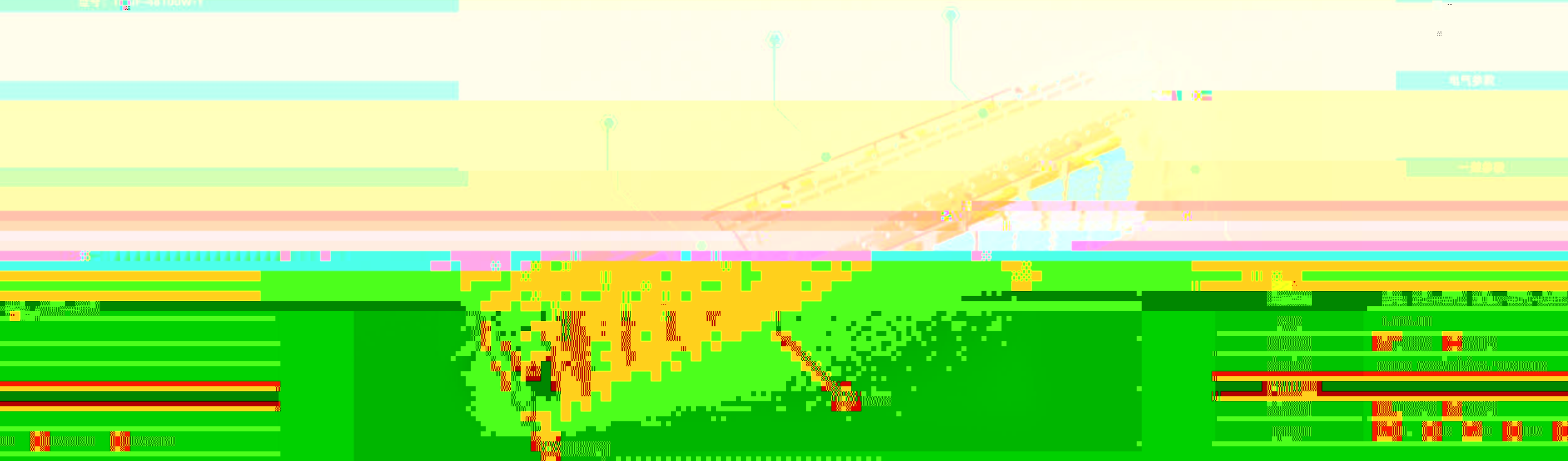
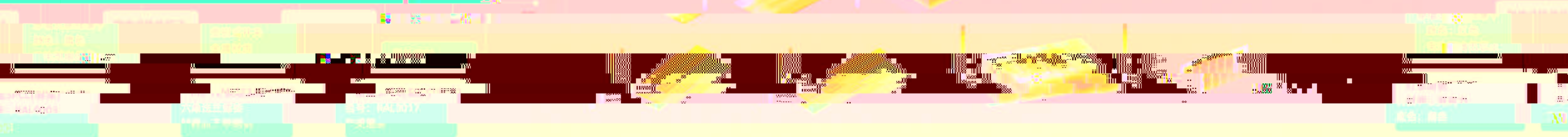
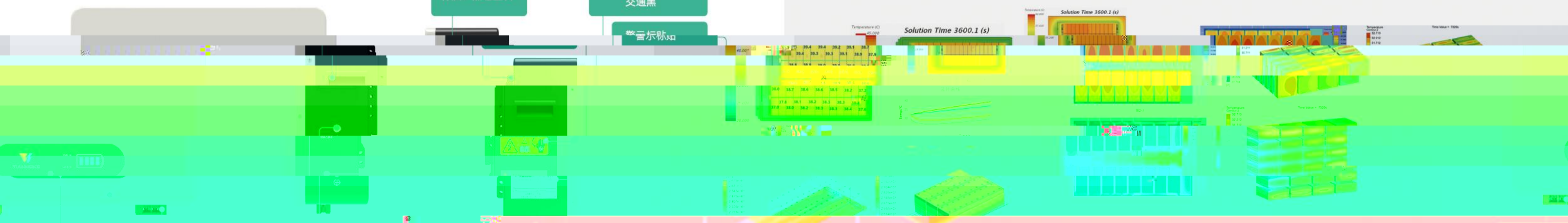


| 家庭储能系统

内嵌式提手
材质：黑色塑料

支架SPCC(喷漆)
色号:RAL9017
交通黑

热管理仿真



03

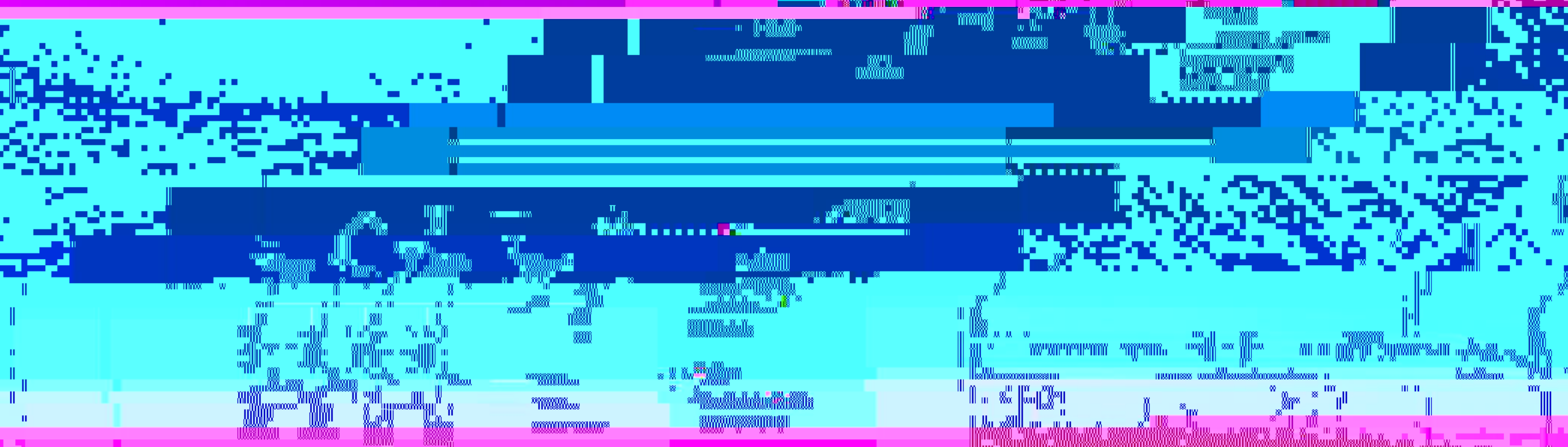
解决方案

变电站

通信站
操作站
EMS
视频监控工作站
配电系统

交流母线

直流母线



项目案例

04

