

**智能组串式储能系统出厂检验报告及装箱清单**  
**Smart String ESS Delivery Inspection Report & Packing List**

**注意事项:**

开箱后, 请按照装箱清单立即清点所有随箱物料, 若有缺失, 请在 48 小时内联系本公司。

**Note:**

Check all the materials against the packing list immediately after unpacking. In case of any discrepancy, contact the company within 48 hours.

## 出厂检验报告

### Delivery Inspection Report

设备名称 Equipment Name		智能组串式储能系统 Smart String ESS	设备型号 Equipment Type	
检验日期 Date			序列号 ESN	
检验结果 Result				
序号 SN	项目 Item	技术要求 Technical Specifications		检验结果 Result
1	一般检查 General inspection	产品铭牌、标示、logo 正确、清晰、齐全 The nameplates, labels, and logo is correct, clear, and complete		Pass
		产品外形和安装尺寸符合图纸、标准及技术要求 The product appearance and installation dimensions comply with the drawings, standards, and technical specifications		Pass
		电缆（电源电缆，控制和通信电缆，接地电缆）符合图纸要求 Cables (power cables, control and communication cables, and ground cables) comply with the requirements specified in the drawings		Pass
		外壳、柜体、仪表、门安装整齐、规范、箱体表面油漆无划伤、掉漆 The shell, cabinets, meters, and doors are properly installed, and the paint on the container surface is not scratched or peeling		Pass
2	安规检查 Safety inspection	安全标识（集装箱内外有高压危险标识） Safety signs (High-pressure hazard signs inside and outside the container)		Pass
		电气间隙（DC>15mm） Electrical clearance (DC>15mm)		Pass
		接地连续性（储能仓门、控制仓门、关键器件接地阻值小于 0.1 ohm） Grounding continuity(The ground resistance is less than 0.1 ohm ,Include battery cabin door、control unit cabin door、key components and so on )		Pass
		绝缘电阻不小于 1Mohm Insulation resistance is not less than 1Mohm		Pass
		主功率回路耐压测试 Main circuit dielectric voltage withstand test		Pass
		配电回路耐压测试 Power distribution circuit dielectric voltage withstand test		Pass
3	功能测试 Function test	供电回路测试（PSU 输出电压 50V±5V） Power Test Power supply (PSU Output Voltage 50V±5V)		Pass
		通信测试（上电后，自动接入 CMU） Communications test (Automatic access CMU after power on)		Pass
		配置文件加载及软件升级测试 Configuration file loading and software update		Pass
		二维码加载测试(解析 SN、Item、Model) QR code scanning (SN、Item、Model)		Pass
		条码父子关系校验（包括 CMU、Pack、簇控制器等） Barcode parent-child relationship verification (Include CMU、Pack 、 Rack controller and so on)		Pass
		CMU 不上报异常告警测试 No alarm with CMU		Pass
		恢复出厂测试验证（开关为断开状态、告警清除） Restoration of factory settings (The switch is off, Alarm clearance)		Pass
		各子模块功能验证正常工作（空调、Pack、簇控制器等） Module function is OK (Include HVAC、Pack 、 Rack controller and so on)		Pass
4	其它 Others	特殊要求检查 Specific requirements inspection		Pass

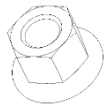
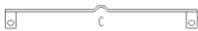
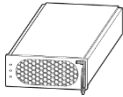
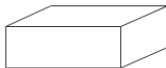
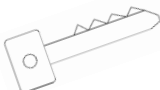
**产品装箱清单**  
**Packing List**

<b>设备名称：智能组串式储能系统</b> <b>Equipment Name: Smart String ESS</b>					
<b>技术文件资料</b> <b>Technical documentation</b>	<b>数量</b> <b>Quantity</b>	<b>备注</b> <b>Remark</b>	<b>内装设备</b> <b>In equipment</b>	<b>数量</b> <b>Quantity</b>	<b>备注</b> <b>Remark</b>
产品装箱清单 Packing list	1		智能组串式储能系统 Smart String ESS	1	
智能组串式储能系统快速指南 Smart String ESS Quick guide	1		单台随箱附件 Accessories delivered with each ESS	1	
主要元件技术资料 Main component technical data	1		单台随箱备件 Spare parts attached for ESS	1	
出厂检验报告 Factory acceptance test report	1				
随箱附件清单 List of accessories attached for ESS	1				
随箱备件清单 Spare parts list attached for ESS	1				
单线图 Single line diagram	1	选配 Optional			
上电顺序图 Power-on sequence diagram	1				
布局图 Layout diagram	1				
合格证 QUALIFICATION CARD	1				
<b>产品内主要元件技术资料</b> <b>Main component technical data</b>					
<b>名称</b> <b>Name</b>	<b>数量</b> <b>Qty./pcs</b>	<b>备注</b> <b>Remark</b>			
灭火控制器使用说明书（选配） Extinguishant control panel user manual (optional)	1	CCC 认证灭火控制器适用 Applicable to CCC certified extinguishant control panel			
灭火控制器操作和维护手册+灭火控制器用户手册（选配） Extinguishant control panel operation and maintenance manual + Extinguishant control panel user manual (optional)	2	CE 认证灭火控制器适用 Applicable to CE certified extinguishant control panel			
智能模块 1000A01 快速指南 SmartModule 1000A01 quick guide	1				
直流断路器 (2P) 说明书 DC circuit breaker (2P) user manual	1	CM3DC-500HHU 或 NDM3Z CM3DC-500HHU or NDM3Z			
交流断路器 (3P+N) 说明书 AC circuit breaker (3P+N) user manual	2 或 1 2 or 1	(NM8N + NM8NL) 或 NDM3L (NM8N + NM8NL) or NDM3L			

## 随箱附件清单

### List of Accessories Attached for ESS

包装箱号 NO.	序号 SN	器件名称 Component Description	型号 Specification	图示 Picture	数量 Qty./pcs	备注 Remarks
1#	1	地脚膨胀螺钉组件 Foot expansion screws asm.	M16*150mm		8	固定在综合控制仓前方 Strapped to the front of control unit cabin
1#	2	地脚固定螺钉组件 Foot fixing screws asm.	M16*50mm		8	固定在综合控制仓前方 Strapped to the front of control unit cabin
1#	3	接地固定螺钉组件 Ground screws asm.	M12*30mm		6	固定在综合控制仓前方 Strapped to the front of control unit cabin
1#	4	L 型角钢 L-shape angle steel	/		4	固定在综合控制仓前方 Strapped to the front of control unit cabin
1#	5	密封泥 Sealing putty	500g/pack		5	固定在综合控制仓前方 Strapped to the front of control unit cabin
1#	6	调平垫片 Leveling gasket	5mm		12	固定在综合控制仓前方 Strapped to the front of control unit cabin
1#	7	调平垫片 Leveling gasket	2mm		12	固定在综合控制仓前方 Strapped to the front of control unit cabin
2#	8	A 形铜排 Copper bar A B 形铜排 Copper bar B	/		A:36 B:18 OR A:18 B:9	固定在电池仓 2#门内 Strapped to the 2# door of battery cabin (铜排数量 A:18 个 B:9 个 仅适配 1MWH 机型) A: 18; B: 9; only for 1MWH)
3#	9	A 形铜排 Copper bar A B 形铜排 Copper bar B	/		A:36 B:18 OR A:18 B:9	固定在电池仓 5#门内 Strapped to the 5# door of battery cabin (铜排数量 A:18 个 B:9 个 仅适配 1MWH 机型) A: 18; B: 9; only for 1MWH)
4#	10	灭火控制器备电电池 Extinguishant control panel backup power supply	12V		2	固定在综合控制仓前方 Strapped to the front of control unit cabin

5#	11	级连铜排固定螺母 Copper bar securing nut	DKBA89310773		240 或 120 240 or 120	固定在综合控制仓前方 Strapped to the front of control unit cabi(数量 120 个 仅适配 1MWH 机型 Quantity: 120, only for 1MWH )
6#	12	C 形铜排 Copper bar C	/		12 或 6 12 or 6	固定在电池仓 1#门内 Strapped to the 1# door of battery cabin (铜排数量: 6 个仅适配 1MWH 机型 C: 6 only for 1 MWH )
/	13	高效整流模块 High efficiency rectifier	R4875G5 / R4830G1		6 或者 4 6 or 4	固定在综合控制仓前方 Strapped to the front of control unit cabin
/	14	SmartLogger3000-千兆 光环辅料包 SmartLogger 3000, Fitting bag for the fiber ring switching function	02233BEU		1	固定在综合控制仓前方 Strapped to the front of control unit cabin
/	15	灭火控制器钥匙 Extinguishant control panel key	/		1	固定在灭火控制器上面 Strapped to the top of Extinguishant control panel

图示仅供参考 The figures are for reference only ; 容量详见箱体铭牌,包含: 1MWH 或 2MWH 两类。The capacity is on the nameplate, include: 1MWH or 2MWH

## 随箱备件清单

### Spare Parts List Attached for ESS

包装箱号 NO.	序号 SN	器件名称 Component Description	型号 Specification	图示 Picture	数量 Qty./pcs	备注 Remarks
/	1	灭火控制器辅料包 Fitting bag for extinguishant control panel	/	/	1	固定在灭火控制器内 Strapped into the extinguishant control panel
4#	2	保险管套件-慢熔断保 险管-250V-4A-IEC Slow blow fuse,250V,4A,IEC fpecification	0.03ohm- 38.7A*A*Sec-UL		3	固定在综合控制仓前方 Strapped to the front of control unit cabin
4#	3	电磁继电器 Electromagnetic relay	1090 ohm- 24VDC-1c-300 W-240VAC-10 A- 29*13*29mm		1	固定在综合控制仓前方 Strapped to the front of control unit cabin (配置 DO 扩展模块, 无需此 备件) This accessory is not required for configuring the DO expansion module
4#	4	电磁继电器配件 Relay accessory	72mm*61.1mm*1 6.2mm		1	固定在综合控制仓前方 Strapped to the front of control unit cabin (配置 DO 扩展模块, 无需此 备件) This accessory is not required for configuring the DO expansion module
4#	5	智能 USB-WLAN 适 配器 USB- adapter2000-C	02312MCK		1	固定在综合控制仓前方 Strapped to the front of control unit cabin
/	6	防雷器起拔器 Arrester extraction tool	DKBA44317138		1	固定在综合控制仓门上 Strapped to the door of control unit cabin
/	7	空调装箱附件-梅花批 头 Torx screwdriver bit delivered with air conditioner	50344TT20		1	固定在综合控制仓门上 Strapped to the door of control unit cabin
/	8	吊环 Lifting ring	DKBA64269649		2	固定在综合控制仓左边 Strapped to the left of control unit cabin

/	9	配电开关助力扳手+ 钢管 Power distribution switch crowbar+steel pipe	DKBA61618113		2	固定在综合控制仓门上 Strapped to the door of control unit cabin
/	10	L 形防盗扳手 L-shaped anti-theft wrench	DKBA82105647		2	固定在综合控制仓门上 Strapped to the door of control unit cabin
备注：随箱备件为免费赠送，消耗完毕后不再免费提供。 Note: Provides free accessories, You can also purchase more accessories if needed.						

图示仅供参考 The figures are for reference only