★秘密★

法规符合性声明
EU declaration of conformity

编号：20250916-003

NO: 20250916-003

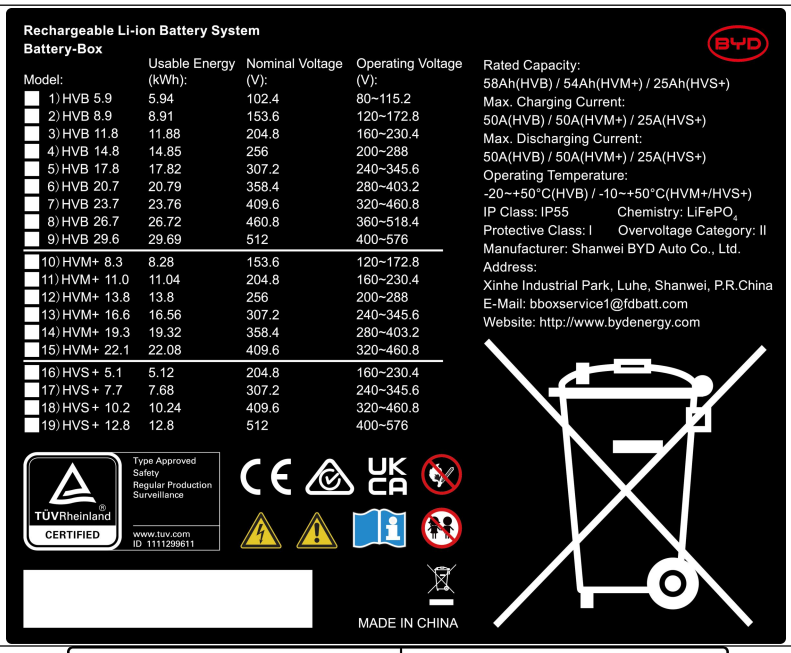
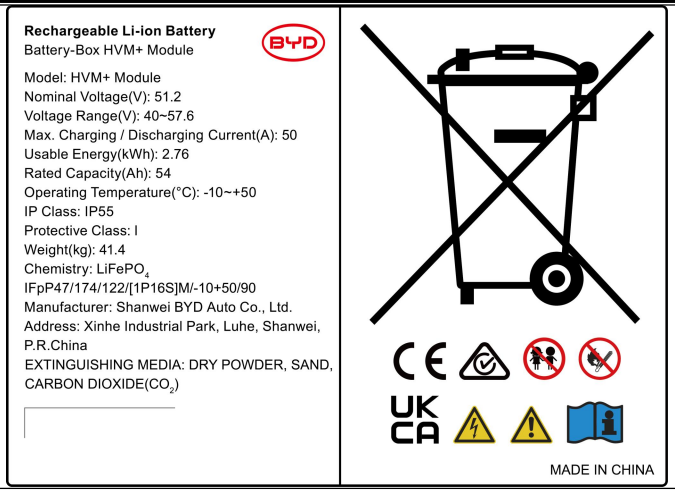
1. 电池型号：HVM+ 8.3、HVM+ 11.0、HVM+ 13.8、HVM+ 16.6、HVM+ 19.3、HVM+ 22.1
   Battery model: HVM+ 8.3, HVM+ 11.0, HVM+ 13.8, HVM+ 16.6, HVM+ 19.3 , HVM+ 22.1
   产品类别：工业电池
   Product category: Industrial Battery

2. 制造商名称：汕尾比亚迪汽车有限公司
   Manufacturer: Shanwei BYD Auto Co., Ltd.
   地址：汕尾市陆河县新河工业园区（河口镇云丰村）
   Site: Xinhe Industrial Park, Luhe, Shanwei

3. 授权代表名称：EFT-Systems GmbH
   Authorized representative: EFT-Systems GmbH
   地址：Bruchtannenstr. 28, 63801 Kleinostheim, Germany
   Site: Bruchtannenstr. 28, 63801 Kleinostheim, Germany

4. 本合格声明由制造商全权负责发布
   This declaration of conformity is issued under the sole responsibility of the manufacturer.

5. 声明对象：电池系统 Battery-Box（HVM+ 8.3、HVM+ 11.0、HVM+ 13.8、HVM+ 16.6、HVM+ 19.3、HVM+ 22.1）
   Subject of declaration: Battery-Box (HVM+ 8.3, HVM+ 11.0, HVM+ 13.8, HVM+ 16.6, HVM+ 19.3 , HVM+ 22.1)
   电池系统由多个模块组成，包括：电芯、线束、电路板、电气元器件、机箱和盲插
   The battery system contains modules, including: cells, wiring harness, PCBA, electrical components, case and blind-mating connectors.

<table>
<tr>
<td rowspan="4"></td>
<td>Number of Modules:
3 - 8</td>
<td rowspan="4">
</td>
</tr>
<tr>
<td>Nominal Voltage:
153.6 V - 409.6 V</td>
</tr>
<tr>
<td>Usable Energy:
8.28 kWh - 22.08 kWh</td>
</tr>
<tr>
<td>Weight:
138.3 kg - 345.3 kg</td>
</tr>
<tr>
<td rowspan="4"></td>
<td>Dimensions(W*D*H):
610 mm*282 mm*240 mm</td>
<td rowspan="4">
</td>
</tr>
<tr>
<td>Nominal Voltage: 51.2 V</td>
</tr>
<tr>
<td>Nominal Capacity: 54 Ah
Usable Energy: 2.76 kWh</td>
</tr>
<tr>
<td>Weight: 41.4 kg</td>
</tr>
</table>

6. 第4点所述的声明对象符合相关的欧盟协调立法：(EU) 2023/1542、2014/53/EU、2011/65/EU，包括其修正案 (EU) 2015/863、(EC) No 1907/2006
   The object of the declaration described in point 4 is in conformity with the relevant Union harmonisation legislation: (EU) 2023/1542, 2014/53/EU, 2011/65/EU, including its amendment (EU) 2015/863, (EC) No 1907/2006

7. 采用的其他相关统一标准或通用规范的索引，或其他与合格声明相关的技术规范的索引：IEC 62619、EN IEC 62040-1、VDE 2510、UKCA、UN 38.3、EN 300328、EN 301489-1、EN 301489-17、EN 62311、EN 61000-6、EN 62477-1
   References to the relevant harmonised standards or the common specifications used or references to the other technical specifications in relation to which conformity is declared: IEC 62619, EN IEC 62040-1, VDE 2510, UKCA, UN 38.3, EN 300328, EN 301489-1, EN 301489-17, EN 62311, EN 61000-6, EN 62477-1

8. 电化学性能及耐久性参数：
   Electrochemical performance and durability parameters:

额定容量/衰减率 Rated capacity / attenuation rate	54安时/97.4%（100% DOD，25 ℃下25A充电/放电，500次循环后） 54 Ah / 97.4% (100% DOD, 25A charge & discharge at + 25 °C, after 500 cycles)
持续放电功率 Cont. discharge power	参考用户手册* Refer to user manual*
放电功率衰减率 Discharge power decay rate	0%（400次循环后） 0% (400 discharge cycles)
初始内阻/增加率 Initial internal resistance / increase rate	参考用户手册* Refer to user manual*
初始/末期循环效率 Initial / end cycle efficiency	95% /94%（10年或3650次循环后，100% DOD，25 ℃下0.2 C充电/放电） 95% / 94% (after 10 years or 3650 cycles, 100% DOD, 0.2 C charge & discharge at + 25 °C)
在设计条件下的预计寿命 Expected life under design conditions	参考用户手册* Refer to user manual*

* 此参数将在用户手册中补充说明
This parameter will be supplemented in the user manual

9. 固定式电池储能系统安全适用的标准
   Standards applied of Safety of stationary battery energy storage system

编号 No.	测试项目 Test project	Quantity	Test Result
1	热冲击和循环测试 Thermal shock and cycling	1 PKS	■ Pass □Fail
2	外部短路保护 External short circuit protection	1 PKS	■ Pass □Fail
3	过充保护 Overcharge protection	1 PKS	■ Pass □Fail
4	过放保护 Over-discharge protection	1 PKS	■ Pass □Fail
5	过热保护 Over-temperature protection	1 PKS	■ Pass □Fail
6	热扩散保护 Thermal propagation protection	1 PKS	■ Pass □Fail
7	外力影响造成的机械损坏 Mechanical damage by external forces	1 PKS	■ Pass □Fail
8	内部短路 Internal short circuit	1 PKS	■ Pass □Fail
9	热滥用 Thermal abuse	1 PKS	■ Pass □Fail
10	防火测试 Fire test	1 PKS	■ Pass □Fail
11	气体排放 Emission of gases	1 PKS	■ Pass □Fail

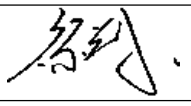
10. 对固定式电池储能系统可能存在的安全隐患进行评估
Assessment of possible safety hazards of the stationary battery energy storage system

潜在安全隐患 Possible safety hazards	缓解说明 Mitigation instructions	缓解证据 Mitigation evidence
无 None	/	/

11. 对可能发生且已识别到的危险进行缓解说明
Mitigation instructions in case the identified hazards could occur

潜在安全隐患 Possible safety hazards	缓解说明 Mitigation instructions
火灾 Fire	BMS在过热后会自动切断电源，且蓝灯闪烁警示。 The BMS automatically cuts off the power supply after overheating and the blue light flashes as a warning. 可用灭火剂：干粉、沙子、二氧化碳（CO_2） Available fire extinguishers: Dry powder, sand, carbon dioxide (CO_2)
爆炸 Explosion	BMS在温度急剧变化后会自动切断电源或发出报警；电池箱本体具备泄压阀，当内部气压≥10kPa时，会自动打开泄压阀。 BMS triggers auto-shutdown or alarm in case of abrupt temperature changes. Battery enclosure features a pressure relief valve that activates automatically at ≥ 10 kPa internal pressure. 可用灭火剂：干粉、沙子、二氧化碳（CO_2） Available fire extinguishers: Dry powder, sand, carbon dioxide (CO_2)

12. 其他信息
Additional information

公司代表人签名 Signature of Authorized Company Representative	
头衔 Title	品质部经理 Manager of Quality Department
签发地点 Place of issue	深圳 Shenzhen
日期 Date of issue	2025-09-16