电池规格书

Battery specification sheet

Battery Pack Specification

51.2V/628AH

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电池组规格书 Battery Pack Specification

电池类型	磷酸铁锂 Li-ion(LFP)
标称电压 Nominal Voltage	51.2V
标称容量 Standard capacity	32153.6Wh
充电限制电压 Charging limit voltage	58.4V
放电截止电压 Discharge cut-off voltage	40V
额定充电电流 Rated charging current	150A
最大充电电流 Maximum charge current	300A
额定放电电流 Rated discharge current	150A
最大放电电流 Maximum discharge current	300A
操作温度 Operate temperature:	充电 Charge：0℃ ~55℃ 放电 Discharge -20℃ ~75℃ 储存 Storage 25℃ ± 2
大气压力及相对湿度 Atmospheric pressure and relative humidity	86～106KPa / 15%～90%RH
尺寸 Size	350*900*850mm
重量 Weight	241.86kg

出货及运输 Shipping and transportation

电池应在 50% SOC 荷电状态下包装成箱进行运输，在运输中不得受剧烈机械冲撞、暴晒、雨淋、不得倒置， 应适用汽车、火车、轮船、飞机等普通运输工具.在装卸过程中，应轻搬轻放，严防摔掷、翻滚和重压。

Batteries should be packaged in boxes at 50% SOC state of charge for transportation, and should not be subjected to severe mechanical impact, exposure to sunlight, rain, or inversion during transportation. Suitable batteries should be packaged in boxes at 50% SOC state of charge for transportation, and should not be subjected to severe mechanical impact,

exposure to sunlight, rain, or inversion during transportation. They should be suitable for ordinary transportation vehicles such as cars, trains, ships, and airplanes. During loading and unloading, they should be handled gently to prevent throwing, rolling, and heavy pressure. During the loading and unloading process of ordinary transportation vehicles such as cars, trains, ships, and airplanes, they should be handled with care to prevent throwing, rolling, and heavy pressure.

贮存 Storage

电池应贮存干燥、清洁及通风良好的仓库内；应不受阳光直射，避免与腐蚀性物质接触，距离热源不得少于 2 米；-不得倒置及卧放，并避免机械冲击或重压。电池贮存过程中每三个月维护一次，超出三个月。

以上未进行产品维护，将会对产品寿命造成较大影响，由此造成的产品违规质量问题，不在我公司质保范围之内。

Batteries should be stored in a dry, clean, and well ventilated warehouse; Should not be exposed to direct sunlight, avoid contact with corrosive substances, and be at least 2 meters away from heat sources; Do not invert or lie down, and avoid mechanical impact or heavy pressure. Maintain the battery every three months during storage, if it exceeds three months.

The lack of product maintenance mentioned above will have a significant impact on the product's lifespan, and any quality issues resulting from this will not be covered by our company's warranty.

使用说明及安全规程 Instructions for use and safety regulations

1) 电池必须按技术要求中规定的正常状态进行使用，如出现产品使用方法错误、电路连接错误或采用的输入电源、负载功能参数与产品规格书所标性能参数不符等现象均属使用不当。

The battery must be used in accordance with the normal state specified in the technical requirements. Any errors in product usage methods, circuit connections, or the use of input power sources or load functional parameters that do not match the performance parameters specified in the product specifications are considered improper use.

2) 严禁将电池浸入海水或水中，保存不用时，应放置于阴凉干燥的环境中。

It is strictly prohibited to immerse batteries in seawater or water. When not in use, they should be stored in a cool and dry environment.

3) 禁止将电池在热高温源旁，或者将其丢与其中。

Do not place the battery near a hot or high-temperature source, or throw it into it.

4) 严禁颠倒正负极、平放、倒立及侧向使用电池。

It is strictly prohibited to reverse the positive and negative poles, lay flat,

invert, or use the battery sideways.

5）禁止用导体对同一电池正负极进行短接或一起运输及储存。
It is prohibited to short-circuit or transport and store the positive and negative terminals of the same battery together using conductors.

6）禁止敲击或抛掷、踩踏电池；禁止直接焊接电池和用钉子或其它利器刺穿电池。
Do not strike, throw, or step on batteries; It is prohibited to directly weld batteries and pierce batteries with nails or other sharp objects.

7）禁止在强静电和强磁场的地方使用，否则易破坏电池安全保护装置，带来不安全的隐患。
Do not use in places with strong static electricity and strong magnetic fields, otherwise it may damage the battery safety protection device and bring unsafe hazards.

8）如果电池发生泄露，电解液进入眼睛，请不要揉擦，应用清水冲洗眼睛，并立即送医院治疗。
If the battery leaks and electrolyte enters the eyes, please do not rub them. Rinse the eyes with clean water and seek medical treatment immediately.

9）电池在充电过程中出现任何异常，如异味，发热、变色、 变形，立即将电池断电隔离并停用。
If any abnormality occurs during the charging process of the battery, such as odor, heating, discoloration, or deformation, the battery should be immediately disconnected, isolated, and stopped.

10）废弃电池按当地法律法规进行集中处理，不得随意丢弃，以免出现环境污染或安全隐患。
Abandoned batteries shall be centrally disposed of in accordance with local laws and regulations, and shall not be discarded at will to avoid environmental pollution or safety hazards.

质量保证 Quality assurance

自出货之日起，电池的保质期限依合同而定。但是，在此期限内，如果非本公司的制程原因而是客户的误用造成的单体电池质量问题，本公司不承诺免费更换。

Abandoned batteries shall be centrally disposed of in accordance with local laws and regulations, and shall not be discarded at will to avoid environmental pollution or safety hazards. The shelf life of the battery is determined by the contract from the date of shipment. However, during this period, if the quality problem of the individual battery is not caused by

the process of the manufacturer but by the misuse of the customer, the manufacturer does not promise to replace it free of charge.

本公司对违反安全守则操作所产生的问题不承担任何责任。

The manufacturer shall not be held responsible for any issues arising from violations of safety regulations.

本公司对与电路、设备、电池组搭配使用所产生的问题不承担任何责任。

The manufacturer shall not be held responsible for any issues arising from the use of circuits, equipment, or battery packs.

AWG Wire gauge and current comparison table						
AWG	Outside diameter		Cross-sectional area	Resistance value	Normal current	Maximum current
	Metric mm	Imperial inch	mm²	Ω/Km	(A)	(A)
0000	11.68	0.46	107.22	0.17	423.2	482.6
000	10.4	0.4096	85.01	0.21	335.5	382.3
00	9.27	0.3648	67.43	0.26	266.2	303.5
0	8.25	0.3249	53.49	0.33	211.1	240.7
1	7.35	0.2893	42.41	0.42	167.4	190.9
2	6.54	0.2576	36.67	0.53	132.7	151.3
3	5.83	0.2294	33.62	0.66	105.2	120.0
4	5.19	0.2043	21.15	0.84	83.5	95.2
5	4.62	0.1819	16.77	1.06	66.2	75.5
6	4.11	0.162	13.3	1.33	52.5	59.9
7	3.67	0.1443	10.55	1.68	41.6	47.5
8	3.26	0.1285	8.37	2.11	33.0	37.7
9	2.91	0.1144	6.63	2.67	26.2	29.8
10	2.59	0.1019	5.26	2.36	20.8	23.7
11	2.30	0.0907	4.17	4.24	16.5	18.8
12	2.05	0.0808	3.332	5.31	13.1	14.9
13	1.82	0.0720	2.627	6.69	10.4	11.8
14	1.63	0.0641	2.075	8..45	8.2	9.4
15	1.45	0.0571	1.646	10.6	6.5	7.4
16	1.29	0.0508	1.318	13.5	5.2	5.9
17	1.15	0.0453	1.026	16.3	4.1	4.7
18	1.02	0.0403	0.8107	21.4	3.2	3.7
19	0.912	0.0359	0.5667	26.9	2.6	2.9
20	0.813	0.0320	0.5189	33.9	2.0	2.3
21	0.724	0.0285	0.4116	42.7	1.6	1.9