TOPA®

电芯&BMS&PACK 一站式制造商

ONE-STOP MANUFACTURER OF BATTERY CELL & BMS & PACK



诚 信 • 用 心 • 专 业 • 规 范

HONEST · CONCENTRATED · PROFESSIONAL · STANDARD

COMPANY PROFILE

公司简介

特派科技（TOPA Brands）是一家专业从事以新能源锂电池为主的集研发、生产、销售为一体的国家级高新技术企业，创立于2008年，总部位于广东深圳。

特派立足先进的锂电池开发应用和解决方案，始终坚持自主创新，以先进的锂电池模组开发与设计能力，良好的成本控制能力及合理的市场定位，奠定了锂电池企业定制化服务的核心竞争力。

公司已获得ISO9001质量管理体系认证、ISO14001环境管理体系认证、ISO45001职业健康安全管理体系认证。公司秉承以“客户至上，结果为导向”的企业文化，希望通过我们的不懈努力获得更多客户的认可。

目前公司已与国内外众多知名企业形成战略合作伙伴关系，产品广泛应用于消防应急灯具、电动工具、园林工具、吸尘器、家用电器、低速车、医疗产品、军用装备、通讯电源、家庭储能、便携式储能、工商业储能系统等领域，产品广销中国、美国、加拿大、欧盟、英国、中东、日本、澳大利亚、东南亚等国家和地区。

TOPA Technology Limited(TOPA Brands) is a national high-tech enterprise specializing in R&D, production and sales of new energy lithium batteries. It was founded in 2008 and the headquarter is located in Shenzhen, Guangdong Province.

Based on advanced technology on the development, application and solution of lithium battery, TOPA always adheres to self-dependent innovation. With advanced capabilities on lithium battery module development and design, good cost control capabilities and reasonable market positioning, TOPA has laid a solid foundation for the core competitiveness on lithium battery customization service for various companies.

TOPA has obtained the ISO9001 quality management system certification,ISO14001 environmental management system certification and IS045001 occupational health and safety management system certification. The company adheres to the"customer first, result-oriented" enterprise culture, and hopes to gain more customer recognition through our unremitting efforts.

At present, TOPA has formed strategic partnerships with many well-known enterprises at home and abroad, and its products are widely used in a variety of fields such as fire emergency luminaires, electric tool, garden tool, vacuum cleaner, household appliances, low-speed vehicle, medical products, military equipment, communication power supply, household energy storage, portable power station, industrial and commercial energy storage system and so on. Our products are widely sold to China, the United States, Canada, the European Union, the United Kingdom, the Middle East, Japan, Australia, Southeast Asia and other countries and regions.



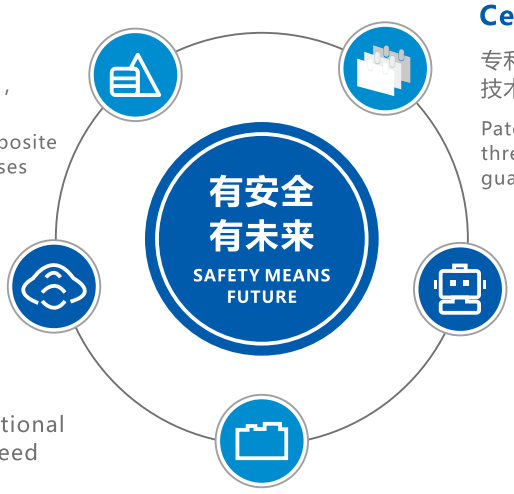
OUR ADVANTAGE

我们的优势

优 势
Advantages

1. 从设计、生产、售后，一站式定制化服务。
   One-stop customized service of design, production and after-sales.
2. 从镍电池到锂电池，16年以上电芯生产团队。
   Over 16 years' production team of nickel battery and lithium battery.
3. 深圳市及国家高新技术企业认证。
   Shenzhen and national high-tech enterprise certifications.
4. UL、CB和KC等国际安全标准认证。
   UL, CB, KC and other international safety standard certifications.
5. 10家以上世界500强企业战略合作经验。
   Eexperience of strategic cooperation with over 10 companies of the Fortune 500.

安全保障体系
Safety Guarantee System



- **材料安全**
  Material Safety

  盟系多元复合锂正极，抑制锂枝晶，
  电池更安全
  Alliance-based multi-element composite lithium positive electrode, suppresses lithium dendrites, battery safer

- **电芯安全**
  Cell Safety

  专利安全阀设计，全自动激光立体焊接
  技术，安全有保障
  Patented safety valve design, full-automatic laser three-dimensional welding technology, safety guaranteed

- **认证安全**
  Certification Safety

  通过国际UL、CB等国际认证，
  安全有保障
  Pass UL, CB and other international certifications, safety guaranteed

- **PCM/BMS安全**
  PCM/BMS Safety

  支持远程监控，充放电全程保护，
  电压、电流二次保护
  Support remote monitoring, full protection of charging and discharging, secondary protection of voltage and current

- **PACK安全 PACK Safety**

  汽车级的PACK设计理念，设计结构时考虑产品极限使用状态
  Automotive-grade PACK design concept ,
  consider the extreme use state of the product when designing the structure

HONOR CERTIFICATE

荣誉证书













产品证书

PRODUCT CERTIFICATE





















PRODUCT R&D
产品研发

依据核心战略方向、强化技术创新能力、研究新型电池技术的产业化推进，实现重大技术创新，公司依据IEC、UL标准建立了标准化实验室，包括化学分析实验室、元素分析实验室、电性能实验室、安全实验室和环境实验室，配备了扫描电子显微镜、ICP、气相色谱仪等先进的检测设备和仪器，能够自主完成原材料、零配件和电池的全项目研发和测试，并与哈尔滨工业大学、北京理工大学、香港城市大学等院校建立技术合作关系，从而确保产品技术持续改进及市场持续竞争力。

Based on the core strategic direction, strengthen the technological innovation capability, promote the industrialization of researching the technology of new types of battery, realize great technological innovation. As per the IEC and UL standards, the company has established standardized laboratories, including a chemical analysis laboratory, an element analysis laboratory, an electrical performance laboratory, a safety laboratory and an environmental laboratory, and it is equipped with advanced testing equipment and instruments such as scanning electron microscope, ICP, gas chromatograph and so on, so that it can autonomously complete the R&D and testings of the raw materials, accessories and batteries of the whole project. Meanwhile, TOPA has established technical cooperation relationships with academies and universities such as Harbin Institute of Technology, Beijing Institute of Technology, City University of Hong Kong and so on to ensure the continuous product technology improvement and the continuous product marketing competitiveness.



自动化生产设备
AUTOMATIC PRODUCTION EQUIPMENT



















为了制造出高品质的电芯，采用了高度自动化生产线作为硬件保障，以确保特派每个客户都能得到高安全性、高一致性、高可靠性的电芯。

In order to manufacture high-qualified cells, a highly automated production line is used as a hardware guarantee to ensure every customer of TOPA can get cells with high safety, high consistency and high reliability.

PROCESS CONTROL

制程管控



<10um

毛刺测试，刀具寿命管理 Burr test, tool life management
设备模具标准作业 Equipment and mold standard operation
转序 Working procedure conversion
标准作业 Standard operation

10万级 100,000 grade

车间进风高中低效过滤 Workshop high-middle-low efficient air intake filtration
粉尘定点测试 Fixed-point test for dust
人、货风淋 Human and cargo air shower
自动除尘装置 Automatic dust removal device
集中吸尘系统 Centralized dust collection system
物料管道、贮罐、分散盘非磁性处理 Non-magnetic treatment of material pipeline, storage tank, and dispersion plate
5道除磁、定期收集分析 5-channel demagnetization, regular collection and analysis

RH1%

全工序1%RH除湿能力 Whole-process 1%RH dehumidifying ability
车间自动温湿度监控 Workshop automatic humiture monitoring
极片水分电阻监控 Electrode moisture monitoring
无延时转序 Immediate working procedure conversion

高温存贮
5次OCV
振动测试
High-temp storage
OCV for 5 times
Vibration test

电池组
常温差
< 5mV/月
Pack voltage drop under normal temp.
< 5mV/month







以自动化生产线作为“智能工厂”的体系基石，电芯在配料除磁、激光测厚、X-RAY对齐，内阻检测、涓流预充、72小时高温老化、350小时常温存储、50多项的电性能测试和3级OCV分检等128个关键控制点建立了管控体系，以保证电芯一致性和超安全性。

TOPA takes the automated production lines as the system cornerstone of the "Smart Factory". To ensure the cell consistency and ultra safety, the company has set up a cell quality control system on 128 critical control points such as ingredient demagnetization, laser thickness measurement, X-RAY aligning, internal resistance detection, trickle pre-charging, 72 hours' high-temperature aging, 350 hours' normal-temperature storage, over 50 electrical performance testings, Grade 3 OCV sort and inspection, and so on.

Portable Power Station

300W



Specification

Rated Capacity	20.8Ah@14.8V
AC Rated Power	300W
AC Voltage	110V/220V
Rated Energy	308Wh
Unit Size	150*205*167mm
Unit Weight	5kg
Operating Temperature	0~45℃
Storage Temperature	-20~45℃

USB Output	2*5V/2.5A
USB Fast Charge	5V~12V 18W
DC Output	2*12V/5A
Car Charging Output	12V/10A
Charging Mode	CC/CV 3.5A/16.8V
Wireless Charger	5W~10W
Type-C Output	5V~20V 100W
LED Power	3W

Packings Parameter

Carton Size	400*260*450mm
Package	4 Units/Carton
Gross Weight/Carton	22kg



Standard Parts



1 LCD Indicator
2 3 USB Charge Ports/Quick Output Port Supporting QC3.0
3 AC Socket, 110/220V Inverter Output
4 Type-C Charge Port/100W Fast Charge
5 DC Car Charge Port With 10A Max Output
6 Case/Fireproof Materials of V-0 Grade

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Specification

Model	TPS1000	TPS1200	TPS1500
Rated Energy	25.6V-42Ah 1075Wh	25.6V-48Ah 1228Wh	51.2V-30Ah 1536Wh
Rated Power	1000W	1200W	1500W
DC Input	12V-60V/9A		
MPPT Input	12V-60V-13A 800W		
DC Output	Cigarette Lighter 12V 24V / DC5525:12V5A*2 / USB-A 3.0 12W(MAX) USB-B QC3.0 18W(MAX) / TYPE-C 100W(MAX) / LED 6W		
AC Output	Pure Sine Wave 220V50Hz/110V60Hz		
AC Output Power	1000W 220V 5.4A Peak Power 1200W 5S	1200W 220V 6.5A Peak Power 1440W 5S	1500W 220V 7A Peak Power 2000W 5S
Working Temperature	-10°C~60°C		
Size	450*315*375mm		
Weight	16KG	17KG	18KG
Certification	PSE FCC CE (UN38.3) ROHS		
Bluetooth/WiFi Function	CONTROL APP: COZYLIFE		

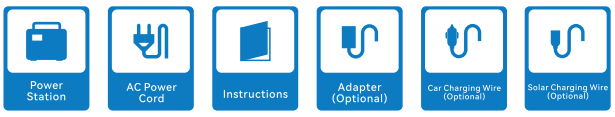
Product Introduction

TOPA TPS1000/1200/1500 series are multi-functional AC/DC emergency portable power stations, for which safe LiFePO4 battery and high-efficient inverter conversion technology are used.
Light weight, high capacity, large power, portable use, including a variety of functions in one, convenient for your home and outdoor emergency use, providing ideal safeguard for your life.



1. LCD Indicator
2. 3 USB Charge Ports/Quick Output Port Supporting QC3.0
3. AC Socket, 110/220V Inverter Output
4. Type-C Charge Port/100W Fast Charge
5. DC Car Charge Port With 10A Max Output
6. Case/Fireproof Materials of V-0 Grade

Standard Parts



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Wall-mounted Household Energy Storage Battery



Product Introduction

Wall-mounted household energy storage battery is designed for photovoltaic power generation, energy storage, backup power and other power fields.
The main features of the system are as follows:

- Exclusive Appearance Design
- Old and new batteries can be blended in parallel, only one button for on/off
- 4-way Battery Temperature Monitoring
- Supporting App's selection & conversion of PCS protocols of various brands, supporting OTA upgrade, supporting CAN and RS485 Communications

Specification

Nominal voltage	51.2V	51.2V
Rated capacity	100Ah	200Ah
Size	650*560*160mm	780*590*190mm
Weight	58.5kg	103.5kg
Pack internal resistance	≤100mΩ	
Cycle times	≥6000 cycles @80%DOD, 25℃, 0.5C	
Design life	≥10 years	
Charging voltage	57.6V±0.5V(16 series)	
Maximum operating current	100A	150A
Discharge cut-off voltage	44V±0.5V(16 series)	
Charging temperature range	0℃~55℃(working below 0℃ will affect the performance of battery capacity)	
Discharge temperature range	−20℃~60℃(working below 0℃ will affect the performance of battery capacity)	
Storage environment	5℃ ~ 45℃ @ 10% ~80%RH	
Communication	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter	
Certification	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell)	

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9.42KWh Ultra-thin Home Energy Storage Battery



Product Introduction

- **GRADE-A BATTERY CELL** — Choose the domestic first-tier lithium battery cell and BMS protection board
- **STANDARD DESIGN** — Maintenance-free design to meet the use of communication cabinets
- **HIGH CONSISTENCY** — Ultra-low internal resistance, excellent battery pack consistency
- **HIGH SECURITY** — Built-in BMS multiple protection, communication function to monitor data in real time
- **HIGH CAPACITY** — Up to 16 units can be connected in parallel to meet the needs of large-capacity applications
- **LONG LIFE SPAN** — 80% DOD depth of discharge, battery cycle life >4000 times

Specification

Nominal voltage	51.2V
Rated capacity	184Ah
Rated energy	9.4KWh
Built-in battery cell	SVOLT ultra-thin LiFePO4 cell
Size	842*530*102mm
Weight	90Kg±2Kg
Charging current	Standard charging 37A maximum charging 92A
Charge cut-off voltage	58.4V
Discharge current	Standard continuous discharge 92A maximum continuous discharge 150A
Discharge cut-off voltage	48V
Display Screen	LCD
Communication Interface	RS485, CAN
Operating temperature	Charging: 0~55℃ discharge -20~55℃
Storage temperature	5~45℃
Storage humidity	≤90%RH

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48V/51.2V Energy Storage Battery System Solutions



Specification

Model	THS48300A-3U THS51300A-3U	THS48400A-3U THS51400A-3U	THS48500A-3U THS51500A-3U	THS48600A-3U THS51600A-3U	THS48700A-3U THS51700A-3U
Nominal voltage	48V/51.2V				
Rated capacity	300Ah	400Ah	500Ah	600Ah	700Ah
Rated Energy	15KWh	20KWh	25KWh	30KWh	35KWh
Size(mm)	550*480*785	550*480*1000	550*480*1215	550*480*1430	550*480*1645
Maximum operating current	200A	300A	400A	400A	400A
Design life	≥10 years				
Charging voltage	54V±0.5V(15 series);57.6V±0.5V(16 series)				
Discharge cut-off voltage	41.2V±0.5V(15 series);44V±0.5V(16 series)				
Cycle times	≥6000 cycles @ 80% DOD, 25° C, 0.5C				
Charging temperature range	0℃~55℃(working below 0°C will affect the performance of battery capacity)				
Discharge temperature range	-20℃~60℃(working below 0°C will affect the performance of battery capacity)				
Storage environment	5℃ ~ 45℃ @ 10%~80%RH				
Pack internal resistance	≤100mΩ				
Communication	RS232-PC,RS485(B)-PC RS485(A)-Inverter,Canbus-Inverter				
Certification	UN38.3,MSDS,UL1973(Cell),IEC62619(Cell)				

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48V/51.2V Energy Storage Battery System Solutions



Specification

Model	THS48300A-4U THS51300A-4U	THS48400A-4U THS51400A-4U	THS48500A-4U THS51500A-4U	THS48600A-4U THS51600A-4U
Nominal voltage	48V/51.2V			
Rated capacity	300Ah	400Ah	500Ah	600Ah
Rated Energy	15KWh	20KWh	25KWh	30KWh
Size(mm)	550*480*875	550*480*1135	550*480*1395	550*480*1655
Maximum operating current	200A	300A	400A	400A
Design life	≥10 years			
Charging voltage	54V±0.5V(15 series);57.6V±0.5V(16 series)			
Discharge cut-off voltage	41.2V±0.5V(15 series);44V±0.5V(16 series)			
Cycle times	≥6000 cycles @ 80% DOD, 25° C, 0.5C			
Charging temperature range	0℃~55℃(working below 0°C will affect the performance of battery capacity)			
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OUR SERVICE

我们的服务

1、从产品的早期设计到产品规划书的确认、样品的评估，从售前的技术支持到售中售后的品质服务，我们站在客户的立场上，以“满足客户需求，追求卓越品质”为宗旨，确保客户的长远利益。

2、售前服务：客户需求调查与预测。通过与客户充分沟通，确定客户需求，提供客户需求的样品和技术资料。

3、售后服务：投诉处理，在8小时内响应客户投诉，48小时内向客户递交针对性的“改善报告”。回答客户提出的相关问题，提供技术资料和相关测试报告。季度及年度客户满意度调查，对客户的需求进行评估及确定客户需求。

4、在安全、环境可持续发展的前提下开展业务，承诺保护环境，保护我们的雇员、客户和公众的健康和安全。

1. From the product design in early period to the product planning book confirmation and the sample evaluation, from the pre-sales technical support to the quality services in and after sales, we're always standing on the customers' positions, taking "meet customers' demand, pursue excellent quality" as the target, to ensure customers' long-term interests.

2. Pre-sales service: the customer demand survey and forecast. Determine the customers' requirements through full communication with customers, provide the samples and technical data that customers need.

3. After-sales service: complaint handing, respond to customer complaints within 8 hours, submit the according "Improvement Report" within 48 hours. Answer the customer's questions, provide technical documents and related test reports. Quarterly and annual customer satisfaction surveys, to evaluate the customers' demand and determine customers' requirements.

4. To conduct business under the precondition of safety and environmentally sustainable development. Promise to protect the environment, protect our employees, customers and the public health and safety.

TOPA®

电芯&BMS&PACK 一站式制造商

ONE-STOP MANUFACTURER OF BATTERY CELL & BMS & PACK

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