


# 2020

南京拓峰新能源科技有限公司  
Company Profile

**TORPHAN**  
拓峰科技

Nanjing Torphan Tech Co., Ltd.



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# PART ONE

## 1

企业概况  
Company profile

## 企业概况



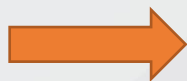
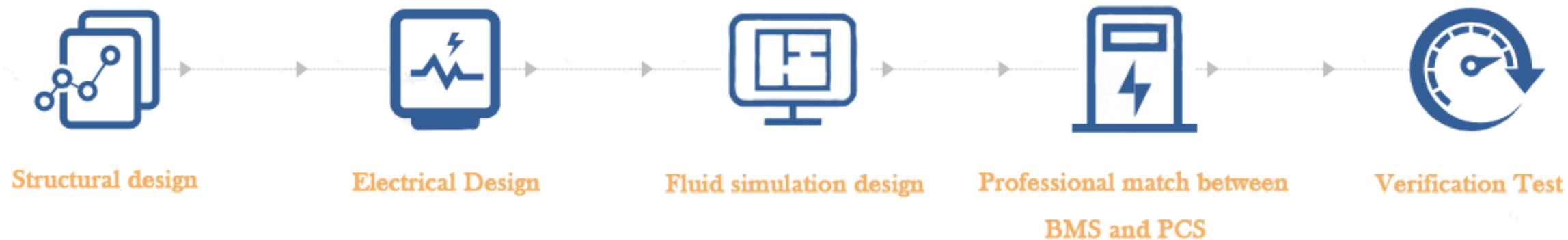
Nanjing Torphan Tech Co.,Ltd is a high tech Company, specializing in lithium ion energy storage system and motive power system, Our smart Li Ion batteries are mainly used in energy storage systems and Electric Material Handling Equipments. Torphan has research&develop department, manufacture department and sale&after service department. Torphan aims to provide power solution and develop smart, reliable and long service renewable energy .

南京拓峰新能源科技有限公司是一家专注于锂离子电池的研发、生产、销售和服务的高新技术企业，产品主要应用于风光储能，电动叉车等新能源领域。公司一直秉承自主研发，自主创新，开放进取的理念，为客户提供安全，可靠，持久的储能和动力系统，并致力于提供全球一流的光储一体以及动力电池的解决方案，力争做用户最信赖满意的锂电专家。



# 企业概念

设计 → 装配 → 测试



拓峰——以最专业的流程对待每一个产品

Behind every product, there are hundreds of thousands of simulation calculations and design verifications performed by engineers.

# 企业概况



国际电工委员会标准



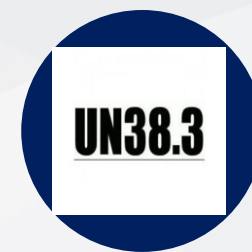
工厂ISO9001质量认证



UL环保认证



欧盟CE认证



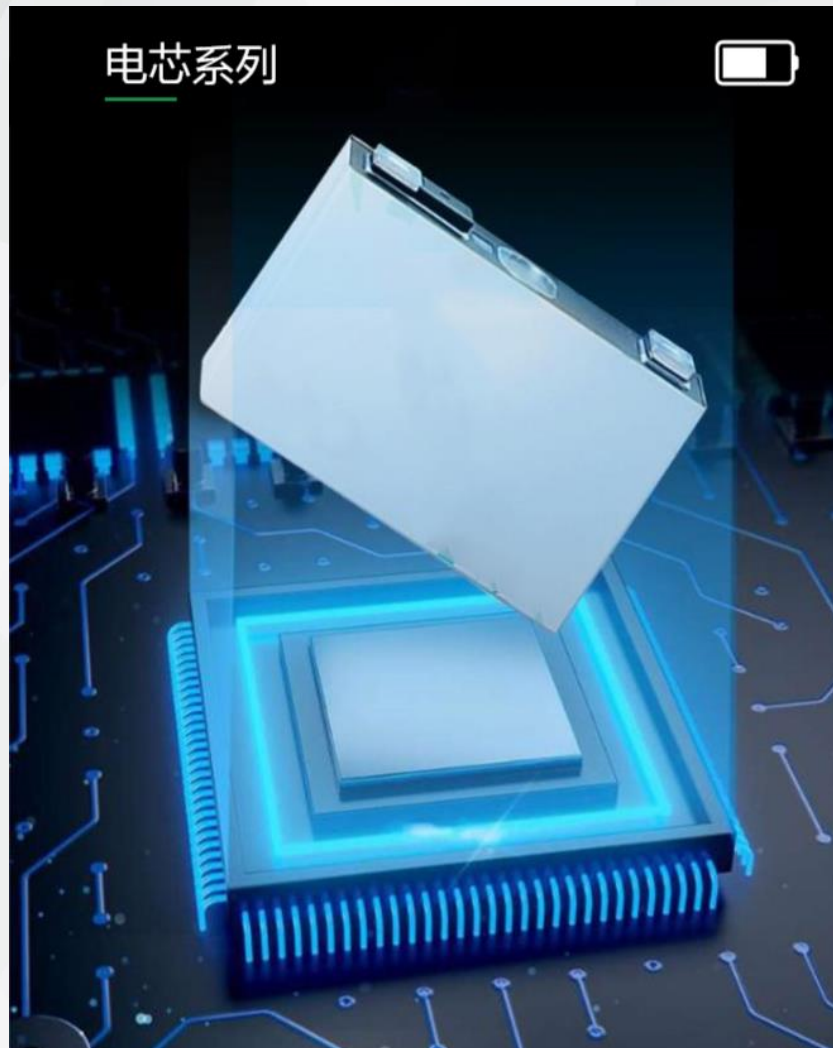
锂电池UN38.3检测

无论是工厂还是产品，拓峰都具备相应的认证许可，确保产品质量。

# PART TWO

# 2

电芯产品  
Cell Products



Alunium Shell (铝壳电芯)					
Model	TFALF50	TFALF100	TFALF206	TFALF280	TFALF50-L
Capacity@25°C 0.5C	50AH	100AH	206AH	280AH	50AH
Rated Volt	3.2V	3.2V	3.2V	3.2V	3.2V
Weight	1.2KG	2.35KG	4.2KG	5.5kg	1.4KG
Size (L*W*H)mm	115*36*154	130*40*220	175*54*208	174*72*205	136*30*186
Energy Density Wh/kg	133	136	157	163	114
volume Energy Density Wh/L	251	280	335	349	210
standard Charge/ Discharge Rate	1C	1C	0.5C	0.5C	0.5C
<a href="#">Cycle @25°C 1C 100%DOD</a>	>3500	>3500	>3000	>3500	>7000
Charge Temperature range	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C
Discharge Temperature range	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C
Storage Temperature range	-20°C~45°C	-20°C~45°C	-20°C~45°C	-20°C~45°C	-20°C~45°C
Certification	BIS, UN38.3, IEC62133,UL1642	BIS, UN38.3, IEC62133,UL1642	UN38.3, IEC62133,UL1642	UN38.3, IEC62133,UL1642	UN38.3, IEC62133,UL1642



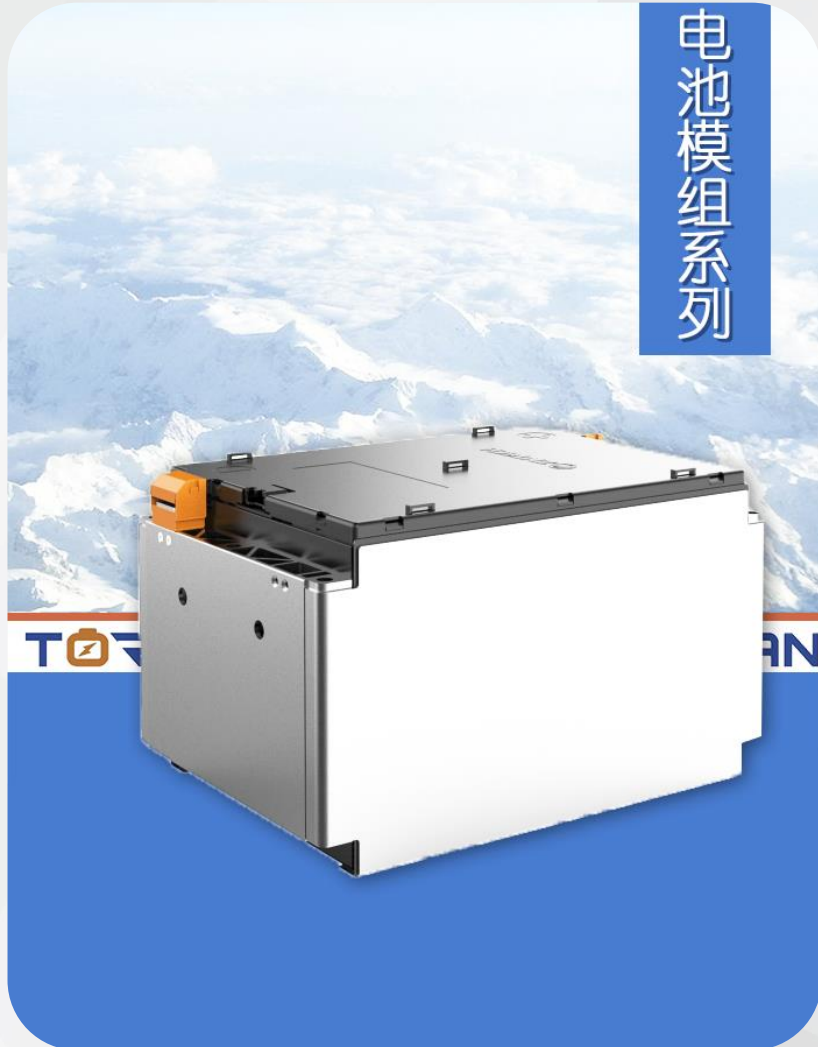
Plastic Shell (塑壳电芯)							
Model	TFPLF40	TFPLF60	TFPLF100	TFPLF200B	TFPLF200A	TFPLF250	TFPLF300
Capacity@25°C 0.5C	40AH	60AH	100AH	200AH	200AH	250AH	300AH
Rated Volt	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V	3.2V
Weight	1.5KG	2KG	3.2KG	5.8KG	4.7KG	5.6KG	9.8KG
Size (L*W*H) mm	117*46*187	117*62*185	142*61*221	180*69*280	180*58*278	180*69*278	360*53*308
Energy Density Wh/kg	85	96	100	110	136	143	98
volume Energy Density Wh/L	127	143	167	184	220	231	163
standard Charge/Discharge Rate	0.3C	0.3C	0.3C	0.3C	0.3C	0.3C	0.3C
<a href="#">Cycle @25°C 1C 100%DOD</a>	>2000	>2000	>2000	>2000	>2000	>2000	>2000
Charge Temperature range	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C
Discharge Temperature range	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C
Storage Temperature range	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C
Certification	UN38.3, IEC62133	UN38.3, IEC62133	UN38.3, IEC6213	UN38.3, IEC6213	UN38.3, IEC6213	UN38.3, UL1642	UN38.3, IEC6213

# PART THREE



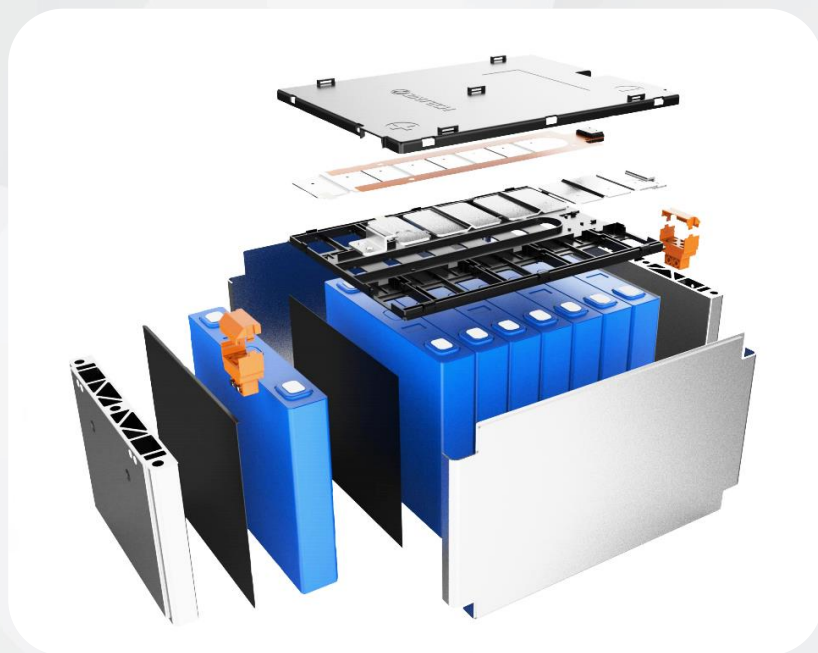
电池模块  
Battery Module

电池模组系列



Model	TF50Ah1P8S	TF50Ah1P16S	TF100AH1P4S	TF100AH1P8S	TF100AH1P16S
Rated Volt	25.6Vdc	51.2V	12.8Vdc	25.6Vdc	51.2V
Rated Capacity	50Ah	50AH	100Ah	100Ah	100AH
Rated Energy (KWH)	1.28	2.56	1.28	2.56	5.12
Module	1P8S	1P16S	1P4S	1P8S	1P18S
Working volt Range	22.4Vdc~28.8Vdc	44.8Vdc~57.6Vdc	11.2Vdc~14.4Vdc	22.4Vdc~28.8Vdc	44.8Vdc~57.6Vdc
Standard charge current	25A	25A	50A	50A	50A
Standard discharge current	25A	25A	50A	50A	50A
Max charge current	50A	50A	100A	100A	100A
Max discharge current	50A	50A	100A	100A	100A
Size (L*W*H) mm	338*120*190	338*240*190	210*135*255	370*135*255	370*270*255
Weight (KG)	13.5kg	26kg	13kg	26kg	43kg
Charge Temperature range	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C
Discharge Temperature range	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C
Storage Temperature range	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C

# 电池模块 Battery Module



Model	TF206AH1P4S	TF206AH1P8S	TF280AH1P4S	TF280AH1P8S	TF280AH1P10S
Rated Volt	12.8Vdc	25.6Vdc	12.8Vdc	25.6Vdc	32Vdc
Rated Capacity	206Ah	206Ah	280Ah	280Ah	280Ah
Rated Energy (KWH)	2.63	5.27	3.58	7.16	8.96
Module	1P4S	1P8S	1P4S	1P8S	1P10S
Working volt Range	11.2Vdc~14.4Vdc	22.4Vdc~28.8Vdc	11.2Vdc~14.4Vdc	22.4Vdc~28.8Vdc	28Vdc~36Vdc
Standard charge current	100A	100A	140A	140A	140A
Standard discharge current	100A	100A	140A	140A	140A
Max charge current (30S)	200A	200A	280A	280A	280A
Max discharge current (30S)	200A	200A	280A	280A	280A
Size (L*W*H) mm	266*180*245	482*180*245	338*180*240	626*180*240	500*360*240
Weight (KG)	22Kg	42Kg	27Kg	52Kg	65Kg
Charge Temperature range	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C
Discharge Temperature range	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C
Storage Temperature range	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C

# PART FOUR



动力电池  
Motive Power Batteries

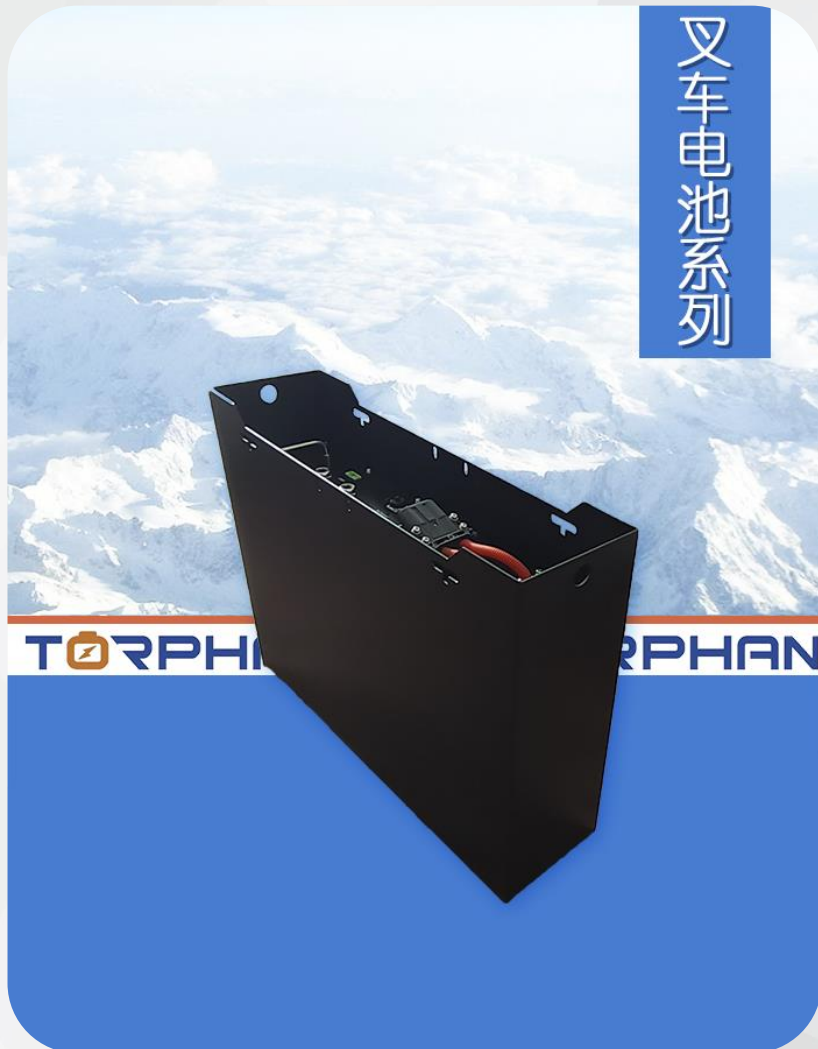
叉车电池系列



拓峰叉车电池 Tophan Li Power					
Model	Li-Power 25206	Li-Power 25280	Li-Power 38206	Li-Power 38280	Li-Power 38560
Rated Volt	25.6	25.6	38.4	38.4	38.4
Rated Capacity	206Ah	280Ah	206AH	280Ah	560AH
System Energy	5.27Kwh	7.16Kwh	7.9KWH	10.7KWH	21.5KWH
Working Volt Range (Vdc)	22.4~28.8	22.4~28.8	33.6~43.2	33.6~43.2	33.6~43.2
Depth of Discharge	96%	96%	96%	96%	96%
Recommend use SOC range	20%- 100%	20%- 100%	20%- 100%	20%- 100%	20%- 100%
Standard charge current	60A	80A	60A	80A	168A
Standard discharge current	60A	80A	60A	80A	168A
Max charge current	100A	140A	100A	140A	280A
Max discharge current	100A	140A	100A	140A	280A
Charge Temperature range	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C
Discharge Temperature range	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C
Storage Temperature range	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C
Size (L*W*H) mm	790*210*580/ customize	582*298*580/ Customize	524*400*580/ Customize	524*400*580/ Customize	630*600*580/ Customize
Weight	85kg/ customize	90kg/ customize	120KG/ customize	130KG/ customize	250KG/ customize

# 动力电池 Motive Power Batteries

叉车  
电池  
系列



拓峰叉车电池 Tophan Li Power					
Model	Li-Power 51206	Li-Power 51412	Li-Power 51280	Li-Power 51560	Li-Power 51840
Rated Volt	51.2	51.2	51.2Vdc	51.2Vdc	51.2Vdc
Rated Capacity	206Ah	412Ah	280Ah	560Ah	840Ah
System Energy	10.5Kwh	21Kwh	14.3Kwh	28.6Kwh	43Kwh
Working Volt Range (Vdc)	48~57.6Vdc	48~57.6Vdc	48~57.6Vdc	48~57.6Vdc	48~57.6Vdc
Depth of Discharge	96%	96%	96%	96%	96%
Recommend use SOC range	20%- 100%	20%- 100%	20%- 100%	20%- 100%	20%- 100%
Standard charge current	60A	120A	80A	160A	250A
Standard discharge current	60A	120A	80A	160A	250A
Max charge current	100A	200A	140A	280A	420A
Max discharge current	100A	200A	140A	280A	420A
Charge Temperature range	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C	0°C~50°C
Discharge Temperature range	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C	-20°C~55°C
Storage Temperature range	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C	-30°C~60°C
Size (L*W*H) mm	532*230*940/ Customize	532*230*940/ Customize	680*230*940/ Customize	680*430*940/ Customize	880*600*940/ Customize
Weight	110Kg/ customize	180Kg/ customize	140Kg/ customize	300Kg/ customize	500Kg/ customize

# PART FIVE

## 5

储能电池  
Stationary / Standby power

# 储能电池 Stationary / Standby power

拓峰智能电池 Tophan Li Smart	
Model	Li-S 51206
Rated Volt	51.2Vdc
Rated Capacity	206Ah
System Energy	10.5Kwh
Working Volt Range	48~57.6Vdc
Depth of Discharge	96%
Standard charge current	50A
Standard discharge current	50A
Max charge current	100A
Max discharge current	100A
Charge Temperature range	0°C~50°C
Discharge Temperature range	-20°C~55°C
Storage Temperature range	-30°C~60°C
Size (L*W*H) mm	532*230*490
Weight	110Kg
Parrallelable	6 pcs
Optional System Energy	10.5Kwh/21Kwh/31.5Kwh/42Kwh/31.5Kwh/63Kwh



储能电池  
Stationary / Standby power

拓峰智能电池 Tophan Li Smart	
Model	Li-S 51280
Rated Volt	51.2Vdc
Rated Capacity	280Ah
System Energy	14.3Kwh
Working Volt Range	48~57.6Vdc
Depth of Discharge	96%
Standard charge current	80A
Standard discharge current	80A
Max charge current	140A
Max discharge current	140A
Charge Temperature range	0°C~50°C
Discharge Temperature range	-20°C~55°C
Storage Temperature range	-30°C~60°C
Size (L*W*H) mm	680*230*490
Weight	140Kg
Parallellable	6 pcs
Optional System Energy	14.3Kwh/28.6KWh /42.9Kwh/57.2Kwh/71.5Kwh/85.8Kwh



电池组系列

# PART SIX



## 储能系统 Energy Storage System



集装箱系列

System Parameter for 3.76MWh Container (40ft) ESS			
Items		Technical Parameters	
Battery Type		LFP Battery	
Rated Power		3.76MWH	
Capacity		3360Ah	
Standard Charge current		840A	
Standard Discharge current		840A	
Max charge current		1680A	
Max discharge current		1680A	
DC Normal Voltage		1120Vdc	
DC Voltage Range		980~1260Vdc	
Battery System Configuration		12 parallel of 1120V280Ah Packs	
Operating Temperature		-20~55°C	
Protection Class		IP55	
Item	Details	Unit	Qty.
1	3.2V280Ah cell	pcs	4200
2	32V280Ah module(Cabinet、BMS)	pcs	420
3	1120V 280Ah battery rack/Cabinet (Install 36 pcs 32V280Ah modules in series with high voltage box)	pcs	12
4	DC High voltage box	pcs	12
5	ON/Off grid cabinet	pcs	1
6	PCS 1250KW	pcs	1
7	Automatic Fire fighting system	set	1
8	Temperature Control system	set	1
9	Monitoring control system	set	1
10	Access control system	set	1
11	40ft Container	pcs	1

# PART SEVEN

# 7

应用案例  
Application Cases

美国加州 · 集装箱储能系统



512V 400Ah Lithium ion container energy system+ 30KW of grid inverter +50KW solar system + 30KW generator

美国加州·BESS



51.2X 1200Ah Lithium ion battery ±18KW Sol-ark inverter Residential BESS

阿拉斯加·风力储能系统



240V 250Ah lithium ion battery + 30KW solar system + 10KW wind turbine + 30KW generator

南京拓峰新能源科技有限公司  
Nanjing Torphan Tech Co., Ltd.

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A large, vibrant blue ocean wave is the background of the image. In the center, a white square contains the word "THANKS" in a blue, sans-serif font. The wave's crest is visible on the right side, and the sky is a clear, light blue.

THANKS

Nanjing Torphan Tech Co., Ltd.