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拓普威新能源有限公司
Topway New Energy Co.,Ltd

Lithium/Sodium Battery Packs
Energy Storage Systems

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Company History



Introduction



Founded in 2003, Shenzhen Topway New Energy Co., Ltd. (formerly Hi-chipcom Electronics, HCC) specializes in new energy batteries. Headquartered in Shenzhen, it boasts top-tier R&D talent. The production base is in Weihai, Shandong Province. In 2021, the company heavily invested in a fully automated artificial intelligence production line for energy storage batteries. Certified with ISO9001 and ISO14001, its products meet IEEC, RoHS, FCC, UL standards. With an R&D center and a Production Failure Analysis Department, it excels in production, R&D, and customer service, earning acclaim worldwide.

Certifications&Patents

Our company has received several domestic enterprise certificates in the electric power and battery industries, along with patents for invention. Additionally, we've earned numerous international certifications, showcasing our dedication to excellence.

Patents We have obtained 85 national patent certificates, including 7 invention patents.

Certifications ISO9001, ISO14000, IEC62133, UL, UN38.3, etc..

Patent certification



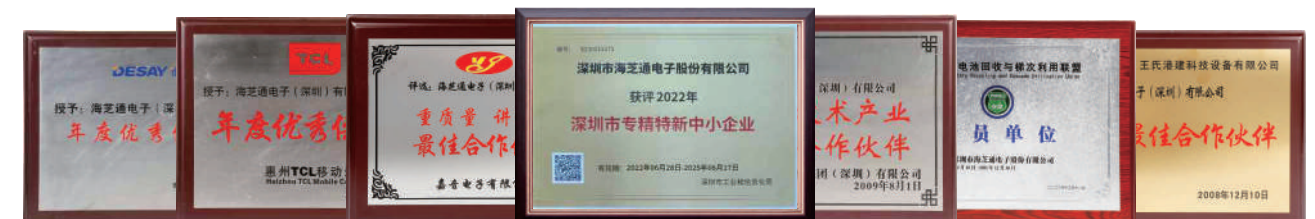
300+ patent certificate

Product certification



IEC62133 CE ZIC Air freight report Sea freight report UL UN38.3 WEEE

Company system certification



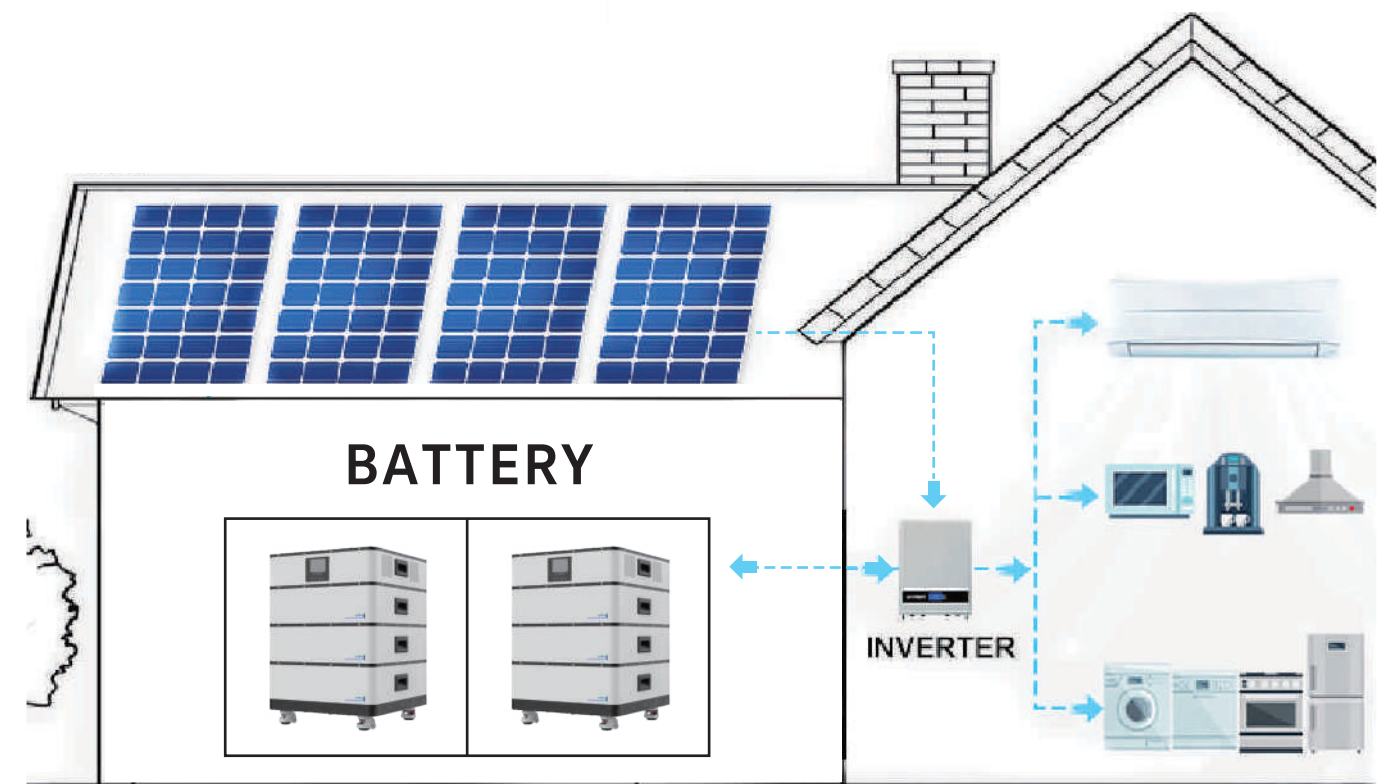
21 Years High-tech enterprises



Profile



Flexible Capacity Expansion





Energy Storage Batteries



Sodium-ion Wall-mounted Battery

48V100Ah

Sodium battery:	16S10P
Voltage Operating Range:	32-63.2V
Nominal Capacity:	100Ah
Nominal Power:	4800Wh
Max. Continuous Charging/ Discharging Current:	50A / 150A
Charging Temperature:	-20℃ ~ 60℃ (-4°F ~ 140°F)
Discharging Temperature:	-40℃ ~ 60℃ (-40°F ~ 140°F)
Cycle Life:	≥2000 times
Cooling Method:	Forced Air Cooling
Waterproof of battery casing:	IP20
Weight:	≈58.5kg
Optional:	48V 100Ah/200Ah/300Ah
Application scenario:	Indoor - Energy storage





Sodium-ion Stack Battery

48V100Ah

Connect method:	16S10P
Nominal Voltage:	48V
Voltage Operating Range:	32V~63.2V
Nominal Capacity:	100Ah
Nominal Energy:	4800Wh
Max. Continuous Charging/ Discharging Current:	50A / 150A
Charging Temperature:	-20℃ ~ 60℃ (-4°F ~ 140°F)
Discharging Temperature:	-40℃ ~ 60℃ (-40°F ~ 140°F)
Cycle Life:	≥2000 times
Waterproof Rating of Battery Case:	IP 20
Weight:	58.6kg
Size:	617*525*173mm
Optional:	48V 100Ah/200Ah/300Ah/400Ah
Application scenario:	Indoor - Energy storage



Sodium-ion E-motorcycle Battery

48V20Ah

Connect method:	16S2P
Nominal Voltage:	48V
Voltage Operating Range:	32V~63.2V
Nominal Capacity:	20Ah
Nominal Energy:	960Wh
Max. Continuous Charging/ Discharging Current:	20A / 80A
Charging Temperature:	-20℃ ~ 60℃ (-4°F ~ 140°F)
Discharging Temperature:	-40℃ ~ 60℃ (-40°F ~ 140°F)
Cycle Life:	≥2000 times
Waterproof Rating of Battery Case:	IP 65
Weight:	12kg
Optional:	36V/48V/60V/72V 10Ah/20Ah/30Ah
Application scenario:	outdoors

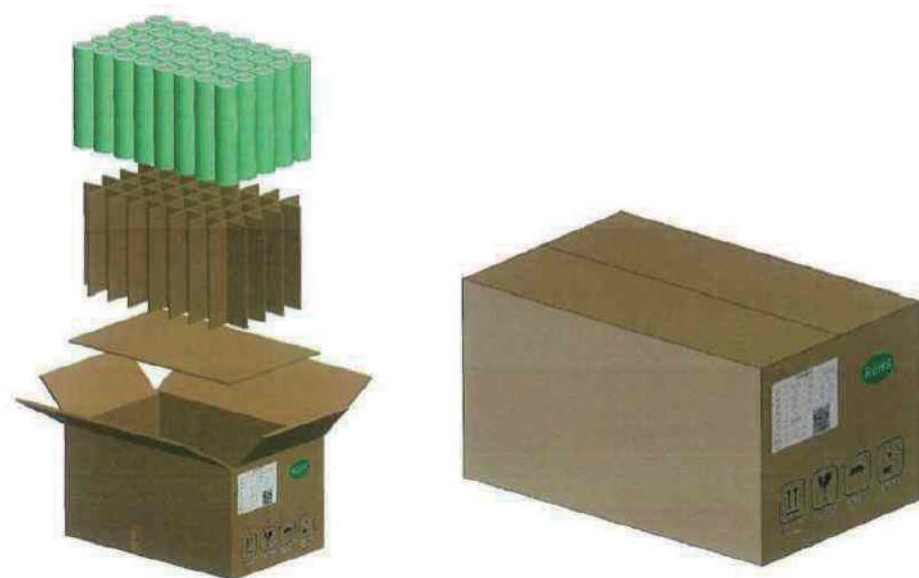




Sodium-ion cell

32140--10Ah

Nominal Voltage:	3.0V
Nominal Capacity:	10Ah
Weight:	256±5 g
Size:	32*140mm
Working Temperature:	-40~70℃
AC Internal Resistance:	≤3mΩ
DC Internal Resistance:	≤10mΩ
Charge cut-off voltage:	3.95V
Discharge cut-off voltage:	2.0V
Energy Density:	≥110 Wh/kg



Sodium-ion cell

3.0V 200Ah

Nominal Voltage:	3.0V
Nominal Capacity:	200Ah
Weight:	5±0.2 kg
Size: Thickness:	72*174*204mm
Working Temperature:	-40~70℃
AC Internal Resistance:	≤0.25mΩ
DC Internal Resistance:	≤0.8mΩ
Charge cut-off voltage:	3.95V
Discharge cut-off voltage:	2.0V
Energy Density:	≥120 Wh/kg



Lithium-ion Wall-mounted Battery



Nominal Voltage:	51.2V	
Nominal Capacity:	100Ah	200Ah
Nominal Energy:	5.12kWh	10.24kWh
Output Voltage range:	43.2V~58.4V	
Max Charging Current:	100A	
Max Discharging Current:	100A	
Application scenario:	Indoor - Energy storage	
Weight:	≈48kg	≈86kg
Size: Thickness:	650*384*142mm	680*412*231mm
Working Temperature:	-20~65°C	
Cycle:	≥6000 times	
Communication:	CAN/RS485/RS232/Bluetooth/WiFi	

Lithium-ion Wall-mounted Battery

Nominal Voltage:	51.2V	
Nominal Capacity:	100Ah	200Ah
Nominal Energy:	5.12kWh	10.24kWh
Output Voltage range:	43.2V~58.4V	
Max Charging Current:	100A	
Max Discharging Current:	100A	
Application scenario:	Indoor - Energy storage	
Weight:	≈55kg	≈92kg
Size: Thickness:	495*540*217mm	495*780*217mm
Working Temperature:	-20~65°C	
Cycle:	≥6000 times	
Communication:	CAN/RS485/RS232/Bluetooth/WiFi	



Lithium-ion Rack Type Battery



Nominal Voltage:	51.2V	
Nominal Capacity:	100Ah	200Ah
Nominal Energy:	5.12kWh	10.24kWh
Output Voltage range:	43.2V~58.4V	
Max Charging Current:	100A	
Max Discharging Current:	100A	
Application scenario:	Indoor - Energy storage	
Weight:	≈47kg	≈82kg
Size: Thickness:	480*442*155mm	680*442*226mm
Working Temperature:	-20~65°C	
Cycle:	≥6000 times	
Communication:	CAN/RS485/RS232/Bluetooth/WiFi	

Lithium-ion Stand Battery

Nominal Voltage:	51.2V	
Nominal Capacity:	280Ah	300Ah
Nominal Energy:	14.3kWh	15.36kWh
Output Voltage range:	43.2V~58.4V	
Max Charging Current:	150A	
Max Discharging Current:	150A	
Application scenario:	Indoor - Energy storage	
Weight:	≈110kg	≈112kg
Size: Thickness:	825*413*233mm	825*413*233mm
Working Temperature:	-20~65°C	
Cycle:	≥6000 times	
Communication:	CAN/RS485/RS232/Bluetooth/WiFi	



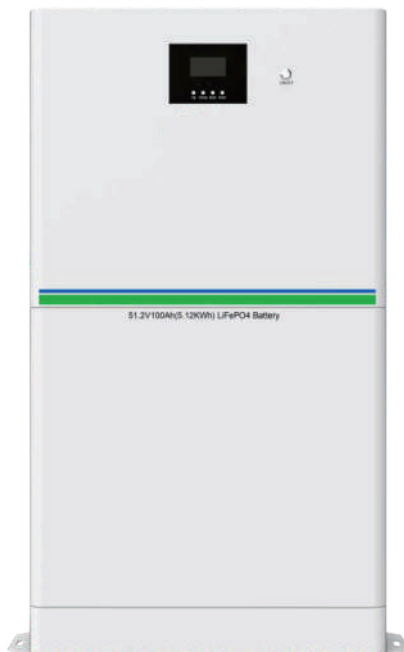
Lithium-ion Stack Battery



Quantity	1 Module	2 Modules	3 Modules	4 Modules
Nominal Voltage:	51.2V			
Nominal Capacity:	100Ah	200Ah	300Ah	400Ah
Nominal Power:	5.12kWh	14.3kWh	15.36kWh	20.48kWh
Voltage range:	43.2V~58.4V			
Max Charging Current:	100A			
Max Discharging Current:	100A			
Efficiency:	> 98%			
Weight:	≈75Kg	≈127Kg	≈179Kg	≈231Kg
Size (mm):	600*500*363	600*500*540	600*500*717	600*500*894
Working Temperature:	-20~65℃			
Cycle:	≥6000 times			
Communication:	CAN/RS485/RS232/Bluetooth/WiFi			

Lithium-ion Inverter Battery All-in-one

Nominal Voltage:	51.2V	
Nominal Capacity:	100Ah	200Ah
Nominal Energy:	5.12kWh	10.24kWh
Output Voltage range:	230V/50Hz	
Nominal Output Power	5kw	
Peak Power	10kva	
Max AC Charging Power	3150W	
PV Max Input Power	4200W	
Loading Current	35A	
Voltage Range	43.2V~58.4V	
Efficiency:	> 98%	
Weight:	≈80kg	≈125kg
Size: Thickness:	600*185*1100mm	600*185*1600mm
Working Temperature:	-20~65℃	
Cycle:	≥6000 times	



Lithium-ion Inverter Battery All-in-one



Nominal Voltage:	51.2V	
Nominal Capacity:	300Ah	400Ah
Nominal Energy:	15.36kWh	20.48kWh
Output Voltage range:	230V/50Hz	
Nominal Output Power	5Kw	
Peak Power	10kva	
Max AC Charging Power	3150W	
PV Max Input Power	4200W	
Overload Current	35A	
Voltage Range	43.2V~58.4V	
Application scenario:	Indoor - Energy storage	
Weight:	≈161kg	≈204kg
Size: Thickness:	600*540*740mm	600*540*920mm
Working Temperature:	-20~65℃	
Cycle:	≥6000 times	

Lithium-ion Stack Battery



Battery Type	LiFePO4
Nominal Capacity	280Ah
Nominal Voltage	768V
Nominal Energy	215kWh
Operating Voltage Range	650V~864V
Max Charging Current	140A
Max Discharge Current	140A
Storage Temperature Range	-20°C~45°C & -4°F~113°F
Operating Temperature Range	-20°C~60°C & -4°F~140°F
Communication Type	CAN/RS485
Dimension	1460*1400*2203mm
Net Weight	≈2500kg
Cooling Mode	Liquid Cooling
AC Side Parameters (Grid-connected)	
Rated Output Power	105kW
Max AC Current	167A
Max DC Power	126kW / 1 Min
Rated Operating Voltage	230 / 400Vac
Approved Grid Frequency Range	50Hz±5Hz

Lithium-ion Inverter Battery All-in-one



Battery Type	LiFePO4
Nominal Capacity	280Ah
Nominal Voltage	384V
Nominal Energy	107kWh
Operating Voltage Range	300V~432V
Max Charging Current	140A
Max Discharge Current	140A
Storage Temperature Range	-20°C~45°C & -4°F~113°F
Operating Temperature Range	-20°C~55°C & -4°F~131°F
Communication Type	CAN/RS485
Dimension	900*1203*2350mm
Net Weight	≈1060kg
Cooling Mode	Air Cooling
AC Side Parameters (Grid-connected)	
Rated Output Power	30kW
Nominal Voltage	400Vac
Nominal Grid Voltage Range	AC400V (-20%~+15%)
Rated Output Current	72A
Output Frequency	50Hz/60Hz
Range Of Output Frequency	50Hz/60Hz±2.5Hz
Wire Connection Mode	3+N+PE

Air Cooling Commercial Energy Storage System



Model	R-51.2V100Ah-HV						
Single Model	51.2V 100Ah						
Weight	42.5kg						
Size	567*355*150mm						
Protect Grade	IP21						
Battery pack Spec.	RHV-20.5	RHV-25.6	RHV-30.7	RHV-35.8	RHV-40.9	RHV-46.1	RHV-51.2
QTY of battery pack	4	5	6	7	8	9	10
Nominal Voltage	204.8V	256V	307.2V	358.4V	409.6V	460.8V	512V
Total Energy	20.48KW.h	25.6KW.h	30.72KW.h	35.84KW.h	40.96KW.h	46.08KW.h	51.2KW.h
Discharge Depth (90%DOD)	18.43KW.h	23.04KW.h	27.65KW.h	32.26KW.h	36.86KW.h	41.47KW.h	46.08KW.h
Max Current	50A	50A	50A	50A	50A	50A	50A
Max Power	10240W	12800W	15360W	17920W	20480W	23040W	25600W
General Parameters:							
Battery Type	LiFePO4						
Operate Humidity	≤85%rh						
Storage Humidity	≤85%rh						
Max of parallel	4 sets						
Protect Grade	IP21						
Net Weight	185Kg	227.5Kg	270Kg	312.5Kg	355Kg	397.5Kg	440Kg
Size (W*D*H) (mm)	567*355*830	567*355*1000	567*355*1170	567*355*1340	567*355*1510	567*355*1680	567*355*1850
Size of Rack (W*D*H)	567*355*1370 (mm)			567*355*2050 (mm)			
Weight of Rack	45Kg			67Kg			
Certification	UN38.3,MSDS,CE,ROHS						
Cycles	≥6000 times						
Communication	CAN , RS485,WIFI						
Temperate of Discharging	-20℃ ~ 60℃						
Temperate of Charging	0℃ ~ 60℃						
Warranty	5 years						

R-High Voltage Energy Storage Battery



Model	R-51.2V200Ah-HV						
Single Model	51.2V 200Ah						
Weight	77kg						
Size	605*383*240mm						
Protect Grade	IP21						
Battery pack Spec.	RHV-41	RHV-51.2	RHV-61.4	RHV-71.7	RHV-81.9	RHV-92.2	RHV-102.4
QTY of battery pack	4	5	6	7	8	9	10
Nominal Voltage	204.8V	256V	307.2V	358.4V	409.6V	460.8V	512V
Total Energy	40.96KW.h	51.2KW.h	61.44KW.h	71.68KW.h	81.92KW.h	92. 16KW.h	102.4KW.h
Discharge Depth (90%DOD)	36.86KW.h	46.08KW.h	55.30KW.h	64.51KW.h	73.73KW.h	82.94KW.h	92. 16KW.h
Max Current	100A	100A	100A	100A	100A	100A	100A
Max Power	20480W	25600W	30720W	35840W	40960W	46080W	51200W
General Parameters:							
Battery Type	LiFePO4						
Operate Humidity	≤85%rh						
Storage Humidity	≤85%rh						
Max of parallel	4 sets						
Protect Grade	IP21						
Operate Humidity	≤85%rh						
Net Weight	323Kg	440kg	477kg	554kg	631kg	708kg	785kg
Size (W*D*H) (mm)	605*383*1190	605*383*1450	605*383*1710	605*(383*2)*1020	605*(383*2)*1190	605*(383*2)*1280	605*(383*2)*1450
Size of Rack (W*D*H)	605*383*1880 (mm)			605*(383*2)*1880 (mm)			
Weight of Rack	64Kg			64Kg*2			
Certification	UN38.3,MSDS,CE,ROHS,IEC62619						
Cycles	≥6000 times						
Communication	CAN , RS485,WIFI						
Temperate of Discharging	-20℃ ~ 60℃						
Temperate of Charging	0℃ ~ 60℃						
Warranty	5 years						



Lithium Ion Phosphate Battery

12.8V100Ah

LiFePO4 4S1P	
Voltage Operating Range:	12.8V(10-14.6V)
Nominal Capacity:	100Ah
Nominal Energy:	1280Wh
Max. Continuous Charging Current:	50A
Max. Continuous Discharge Current:	100A
Operating Temperature:	-20℃ ~ 65℃
Cycle Life:	≥4000 times
Dimension:	L265x W165x H210mm
Weight:	≈11kg
Waterproof Rating of Battery Box:	Ip65
Cycle Life:	≥ 4000
Optional:	12V/100Ah/200Ah 24V/100Ah/200Ah



About Us



PRODUCT DISPLAY



Compatible Inverter Brands

