



Battery Solution Expert

HERCULES | NGE
∞ ENERGY

BATTERY SOLUTION EXPERT

About Us

Next Generation Energy Tech Co., Ltd — Your Battery Solution Expert !

NGE is a leading lithium battery solution provider and a battery integration supplier in the field of eMobility, marine, ESS, industrial and recreational applications.

We've been dedicated in this field for more than 10 years and closely partnered with some of the best tier one lithium battery manufacturers, like EVE, Batterotech, CALB, etc.

Supported by highly developed supply chain of lithium battery and professional R&D team, NGE is able to customize the structure designs and integration of its products, which helps batteries achieve their best performance for different markets. Our products have been widely exported to Europe, North America, South Africa and other countries all over the world.

NGE has also successfully achieved ISO 9001 and ISO 14001 certification. This accomplishment highlights our dedication to quality management and environmental responsibility.

In the future, we will stay committed to providing premier solutions and services for battery applications worldwide.

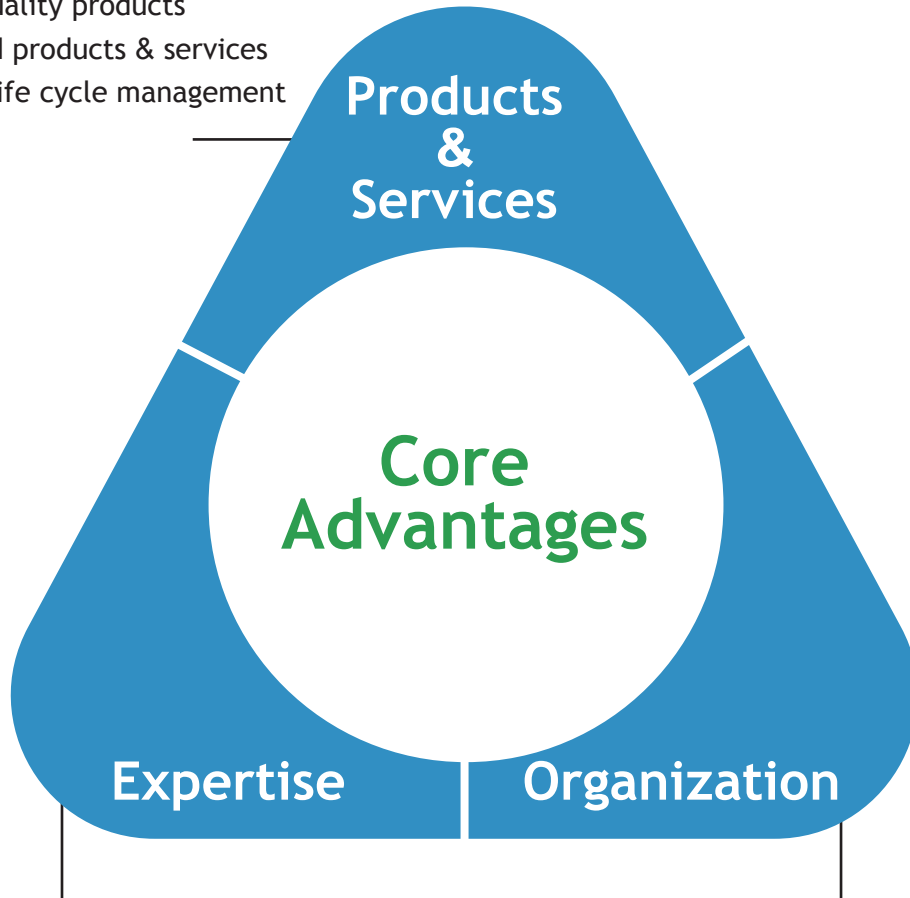
Vision: Accelerate the evolution of electrification, and keep contributing to a cleaner world.

Mission: Take the energy challenge and build outstanding battery solutions and products.

Core Value: Integrity, Quality, Efficiency, Innovation.



- Superior-quality products
- Customized products & services
- Complete life cycle management





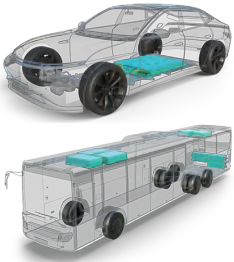
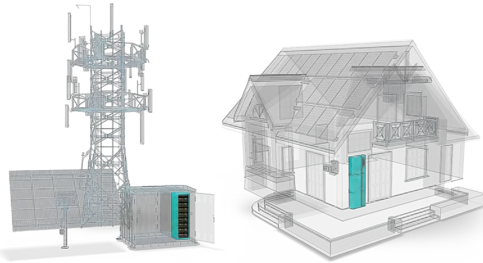
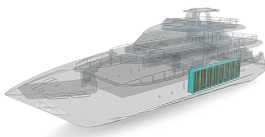
- 10+ years of experience
- Constant technical innovations
- Professional R&D team

- Comprehensive & effective supply chain
- Efficient marketing team
- Complete after-sales service system



Comprehensive Solutions

Cell	Module	System
Standard Cylindrical Cell Large Cylindrical Cell Prismatic LFP Cell Prismatic NCM Cell Pouch Cell Customized Cells Service	Prismatic LFP Module Prismatic NCM Module Cylindrical LFP Module Customized Modules Service	ESS Battery Pack ESS Battery Rack Portable Power Station Customized Systems Service

 <h3>Customized Cells</h3> <p>Partner with the best tier-one lithium battery manufacturers, our products achieve the best performance for different markets. To enhance the flexibility of assembly, NGE offers customized threaded-terminal welding services.</p>	<h3>Industrial</h3> <p>Compared to lead-acid and other lithium batteries, lithium iron phosphate batteries offer significant advantages, including improved charge and discharge efficiency, longer life span and the ability to deep cycle while maintaining power. Non maintenance and super long life make them a worthwhile investment and a smart long-term solution.</p> 
 <h3>E-mobility</h3> <p>Lithium batteries have an advantage over other cell chemistries due to its specific energy density, cost, scale of production in mobility. NGE provides global users with the most cutting-edge and most reliable lithium battery products for electric vehicles.</p>	 <h3>Energy Storage</h3> <p>Battery energy storage system can store energy from different sources and discharge it when needed. BESS consists of one or more batteries and can be used to balance the electric grid, provide backup power and improve grid stability.</p>
 <h3>Marine</h3> <p>Due to the higher densities of energy and power, lithium batteries are light on weight and small in size. Moreover, lithium battery has longer lifetime, higher depth of discharge, lower self-discharge and faster charging. All of these advantages make lithium battery more and more popular in marine applications.</p>	



Product Lineup

- ① Cell
- ② Module
- ③ Pack
- ④ Rack
- ⑤ System

Cylindrical Cell

Features

- High-quality:** Advanced production management and traceability system to ensure high quality of cell
- High-safety:** Multi-level protective structures, automated manufacturing processes
- Extreme Manufacturing:** Extremely strict processes, extremely fast production speed, extremely high quality requirements
- High-consistency:** Extreme manufacturing and automatic sorting process to ensure high-level consistency
- High Energy Density:** Widely used for e-mobility, e-tool, with extremely high energy density
- Certificate:** UN38.3, MSDS, IEC, UL compliant

Model List

Model	Chemistry	Nominal Capacity (Ah)	Voltage (V)	Internal Resistance (mΩ)	Energy Density (Wh/kg)	Charging/Discharging Rate
18650P	NCM	2.5	3.6	≤18	187.5	1.6C/12C
18650E-1	NCM	2.55	3.6	≤30	195	1C/3C
18650E-2	NCM	3.2	3.6	≤30	251	1C/3C
21700P	NCM	4.0	3.6	≤12	206	1.5C/12.5C
21700E	NCM	5.0	3.65	≤20	265	0.5C/3C
33140	LFP	15.0	3.2	≤3	182	1C/3C
40135	LFP	20.5	3.2	≤3	176	1C/3C



Applications

Energy Storage System, Power tool, Electric Vehicle, Industrial purpose, etc

Prismatic LFP Cell

Features

Ultra-safety:	Aircraft-grade safety and reliability
High-quality:	Advanced production management and traceability system to ensure high quality of cell
High-consistency:	Extreme manufacturing plus automatic sorting process to ensure high-level consistency
Long cycle-life:	Life up to 10,000 cycles
Customized:	Custom threaded terminals available
Certificate:	UN38.3, MSDS, IEC, UL, RoHS compliant

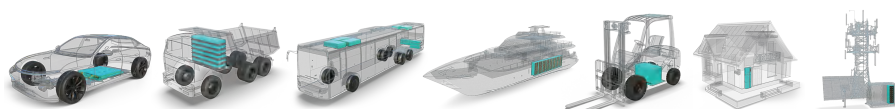


Model List

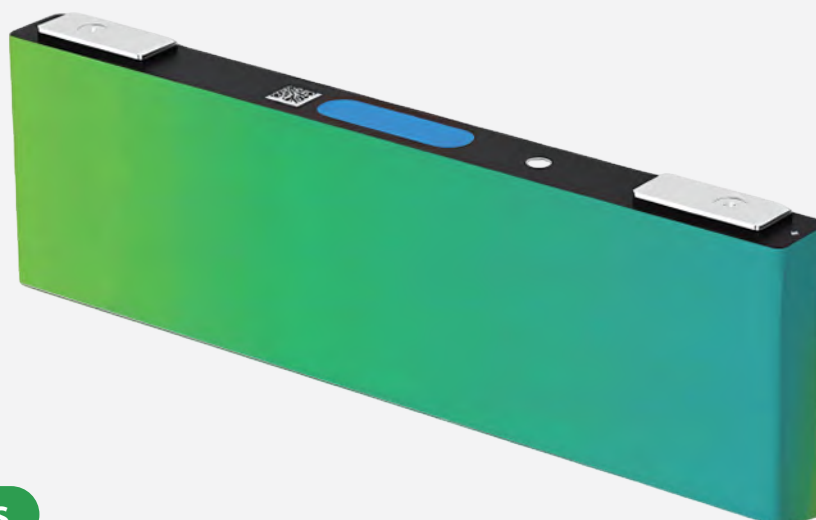
Model	Nominal Capacity (Ah)	Voltage(V)	Dimensions (L*W*H/mm)	Energy Density (Wh/kg)	Cycle Life	Continuous Charging/Discharging Rate	Connection
LFP22	22	3.22	148.7*17.7*131.8	113	4500(80%SOH)	3C/3C	Laser Welding
LFP50	50	3.2	148.3*26.7*129.8	152	1500(80%SOH)	1C/1C	Laser Welding
LFP72-1	72	3.2	148.3*39.7*113.61	170	4000(80%SOH)	1C/2C	Laser Welding
LFP72-2	72	3.2	160*36.5*142	134	2500(80%SOH)	1C/6C	Laser Welding
LFP88	88	3.2	148*52*104.5	175	2500(80%SOH)	1C/1C	M6 Screw/Laser Welding
LFP90	90	3.2	130*36.7*200.5	144	6000(80%SOH)	2C/2C	M4 Screw/Laser Welding
LFP100	100	3.2	160*49.9*118.5	161	5000(80%SOH)	0.5P/0.5P	M6 Screw/Laser Welding
LFP105	105	3.2	130.3*36.35*200.5	170	4000(80%SOH)	1C/1C	M4&M6 Screw/Laser Welding
LFP125-1	125	3.2	174.4*36.4*178.3	165	3000(80%SOH)	1C/1C	M6 Screw/Laser Welding
LFP125-2	125	3.22	200.7*33.25*172	168	4000(80%SOH)	1C/1C	Laser Welding
LFP150	150	3.2	200.7*33.25*207	171	4000(80%SOH)	1C/1C	Laser Welding
LFP163	163	3.2	174.4*36.4*220	171	4000(80%SOH)	1C/1C	M6 Screw/Laser Welding
LFP173	173	3.22	174*41*207	174	4000(80%SOH)	1C/1C	Laser Welding
LFP230	230	3.2	173.93*53.85*207.2	180	4000(80%SOH)	1C/1C	M6 Screw/Laser Welding
LFP280	280	3.2	173.7*72*207.2	166	8000(70%SOH)	0.5P/0.5P	M6 Screw/Laser Welding
LFP304	304	3.2	173.7*71.7*207.2	178	4000(80%SOH)	1C/1C	M6 Screw/Laser Welding
LFP306	306	3.2	173.7*71.7*207.2	175	10000(70%SOH)	0.5P/0.5P	M6 Screw/Laser Welding
LFP314	314	3.2	173.7*71.7*207.2	179	8000(70%SOH)	0.5P/0.5P	M6 Screw/Laser Welding

Applications

Passenger Vehicle, Pure Electric Bus, Hybrid Electric Bus, Heavy-duty Vehicle, Light Commercial Vehicle, Marine, Telecom, Commercial and Residential Storage, etc



Prismatic NCM Cell



Features

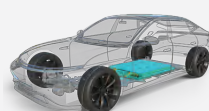
- Standard Dimension:** VDA format available
- High-quality:** Advanced production management and traceability system to ensure high quality of cell
- High-safety:** Automotive grade safety, explosion-proof, no leakage
- High Energy Density:** Weight energy density higher than 240 Wh/kg
- Certificate:** UN38.3, MSDS, IEC, REACH compliant

Model List

Model	Format	Nominal Capacity (Ah)	Voltage (V)	Dimensions (L*W*H/mm)	Energy Density (Wh/kg)	Cycle Life	Continuous Charging / Discharging Rate
NCM58	VDA	58	3.62	148.2*26.72*95.21	245	3000(70% SOH)	1C/2C
NCM113	MEB	113.5	3.66	220*33.36*103.24	231	1500(80% SOH)	1C/1C
NCM114	L300	114.2	3.73	301.8*27.00*94.95	240	1500(70% SOH)	1C/1C
NCM147	MEB	147	3.71	220*44.5*105.2	241	1600(80% SOH)	1C/1C

Applications

Pure electric vehicle (BEV), plug-in hybrid electric vehicle (PHEV), hybrid electric vehicle (HEV), 48V system for micro-hybrid, etc



(BEV)

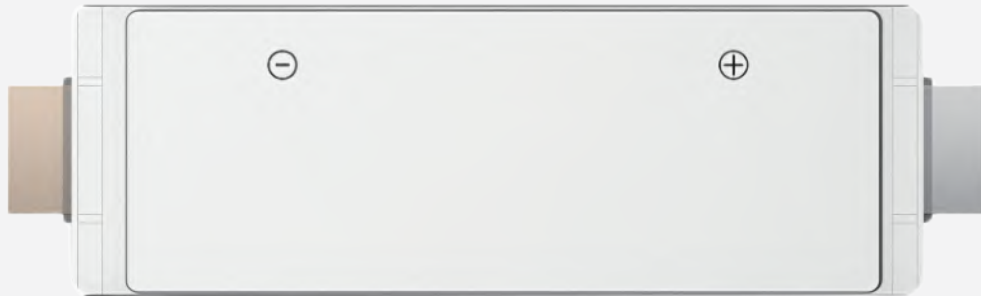


(PHEV)



(HEV)

Pouch Cell



Features

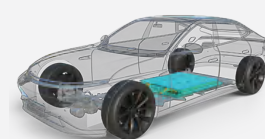
High-quality:	Tier one quality level, comprehensive testing and verification
Standard Dimension:	VDA format available
Flexible Size:	Flexible structure to fit more mechanical designs
High-safety:	Automotive grade safety, explosion-proof, no leakage
Certificate:	UN38.3, MSDS, IEC, UL compliant

Model List

Model	Nominal Capacity (Ah)	Voltage (V)	Dimensions (L*W*H/mm)	Energy Density (Wh/kg)	Cycle Life	Continuous Charging / Discharging Rate
NCM30	30	3.65	230*7.2*130.5	249	3000(70% SOH)	0.33C/0.33C
NCM50	50.5	3.65	301.5*11.6*99.7	250	1000(80% SOH)	1C/2C
NCM61	61	3.65	301.5*13.6*99.7	260	3000(70% SOH)	0.33C/0.33C
NCM65	65	3.65	301.5*14.3*99.7	263	3000(70% SOH)	0.33C/0.33C

Applications

Pure electric vehicle (BEV), plug-in hybrid electric vehicle (PHEV), 48V system for micro-hybrid, etc

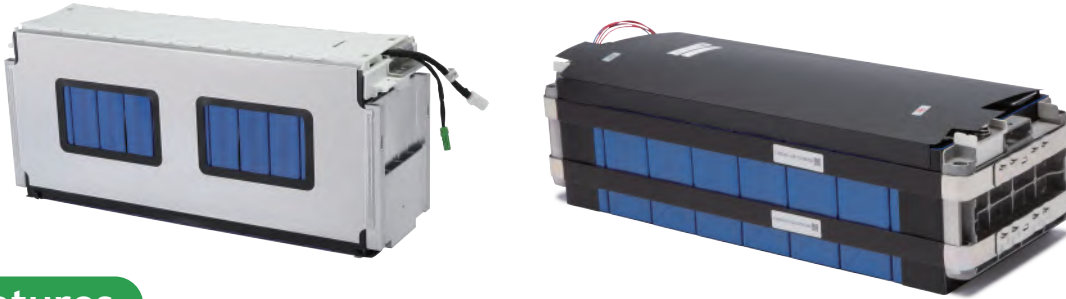


(BEV)



(PHEV)

Prismatic LFP Module



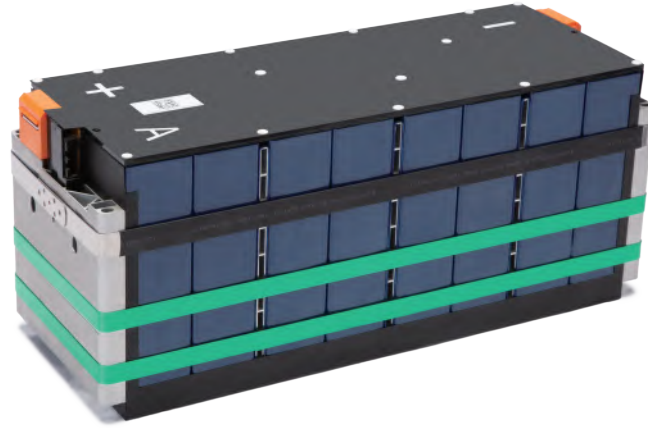
Features

- Laser welding manufacturing techniques to guarantee stable electronic connection
- Reliable structural strength and stability
- Suitable for all kinds of industrial voltage platform, easy maintenance
- Excellent cooling conditions and homogeneity of temperature
- UN38.3, MSDS compliant

Model List

Cell	Configuration	Nominal Capacity (Ah)	Voltage (V)	Nominal Energy (kWh)	Weight (kg)	Dimensions(L*W*H/mm)
LFP100	1P8S	100	25.6	2.56	17.80	434.4*164*124.1
	2P4S	200	12.8	2.56	20.50	310.5*204.5*184.1
	1P10S	100	32	3.2	21.2	540*163.2*122
	1P11S	100	35.2	3.52	23.2	590*163.2*122
	1P12S	100	38.4	3.84	25.3	640*163.2*122
LFP105	1P8S	105	25.6	2.688	17.54	339.1*136.2*224
	2P4S	210	12.8	2.688	17.52	339.1*136.2*224
	1P9S	105	28.8	3.024	20.27	373.4*136.2*224
	1P12S	105	38.4	4.032	25.78	485.9*136.2*224
	2P6S	210	19.2	4.032	25.65	485.9*136.2*224
	3P4S	315	12.8	4.032	25.64	485.9*136.2*224
	4P3S	420	9.6	4.032	25.64	485.9*136.2*224
	1P15S	105	48.0	5.040	31.89	552.0*136.2*224
	2P8S	210	25.6	5.376	34.80	630.3*136.2*224
	1P16S	105	51.2	5.376	34.80	632.7*136.2*224

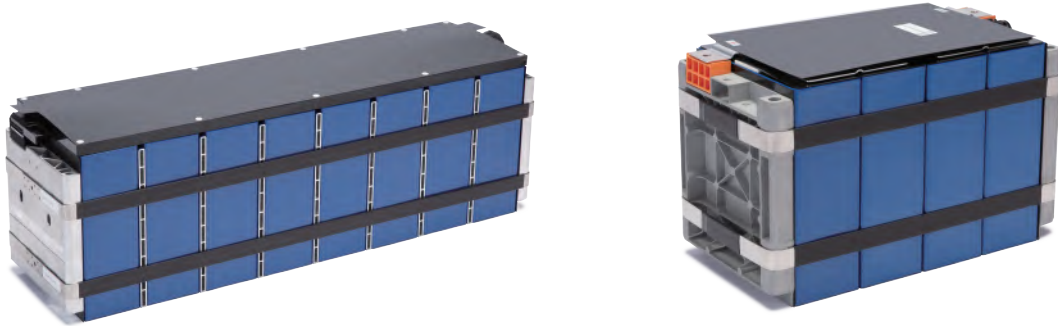
Prismatic LFP Module



Model List

Cell	Configuration	Nominal Capacity (Ah)	Voltage (V)	Nominal Energy (kWh)	Weight (kg)	Dimensions(L*W*H/mm)
LFP125	1P13S	125	41.6	5.2	33	516.5*175* 182.5
	1P24S	125	76.8	9.6	61	916*177.7*181.7
	1P26S	125	83.2	10.4	65.1	989*181.7*175
LFP163	1P16S	163	51.2	8.346	51.75	624*178*236
	1P20S	163	64.4	10.497	64	770*178.8*224.5
	2P10S	326	32.2	10.497	64	770*178.8*224.5
	1P24S	163	77.28	12.597	76.6	916*178.8*224.5
	2P12S	326	38.64	12.597	76.6	916*178.8*224.5
LFP173	1P11S	173	35.42	6.128	39.4	500.1*178.9*213.9
	1P12S	173	38.64	6.685	42.87	541.8*178.9*213.9
	1P14S	173	45.08	7.799	49.97	625.2*180*215
LFP230	1P6S	230	19.6	4.508	26.7	363*176.9*211.5
	1P8S	230	25.6	5.888	35.21	473.9*177.9*230
	1P13S	230	41.6	9.568	58.26	743.9*179.3*230
	1P16S	230	51.2	11.776	67.29	905.9*179.9*230
	2P8S	460	25.6	11.776	69.33	905.9*177.9*230

Prismatic LFP Module

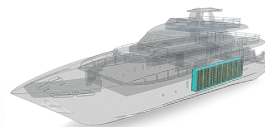
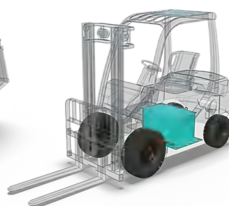
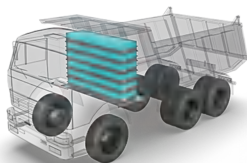
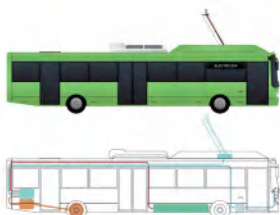


Model List

Cell	Configuration	Nominal Capacity (Ah)	Voltage (V)	Nominal Energy (kWh)	Weight (kg)	Dimensions(L*W*H/mm)
LFP280	1P4S	280	12.8	3.584	25	333.5*178*213
	1P5S	280	16	4.48	25.8	486*177.6*215.6
	1P8S	280	25.6	7.168	45.15	629*178.5*215
	1P12S	280	38.4	10.752	67	913.6*173.5*213.9
LFP304	1P4S	304	12.8	3.891	23.7	329.5*177.7*230
	1P8S	304	25.6	7.782	46.08	617.7*177.7*230
	1P10S	304	32	9.728	59.3	761.7*179.3*230
	1P12S	304	38.4	11.673	70.83	905.7*179.3*230

Applications

Industrial and Recreational Applications, Electrical Bus, Caravan, Backup Power, Marine, ESS, Traction Power, Portable Battery and Others



Prismatic NCM Module



Features

- Laser welding manufacturing techniques to guarantee stable electronic connection
- FPC and heating film integrated to ensure the stability of module
- Reliable structural strength and stability
- Standard VDA battery module and its derivatives
- Excellent cooling conditions and homogeneity of temperature

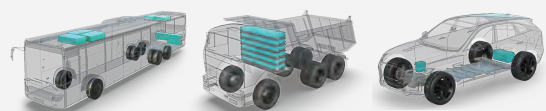
Model List

Cell	Configuration	Nominal Capacity (Ah)	Voltage(V)	Nominal Energy(kWh)	Weight (kg)	Dimensions(L*W*H/mm)
NCM58	3P4S	174	14.68	2.554	12.2	355*151*108.1
	2P6S	116	22.02	2.554	12	355*151*108.1
	3P5S	174	18.35	3.192	15.33	440.5*151.9*119
	3P6S	174	22.02	3.831	18.24	522.2*151.9*119
NCM113	2P8S	227	29.36	6.664	31.4	590*225.5*110
NCM147	1P12S	147	44.52	6.54	30.25	594*224.5*108

Applications

Passenger Vehicle
 Plug-in Hybrid Vehicle
 Agricultural Vehicle

Heavy-duty Vehicle
 Light Commercial Vehicle
 Electric Bus



Cylindrical LFP Module



Features

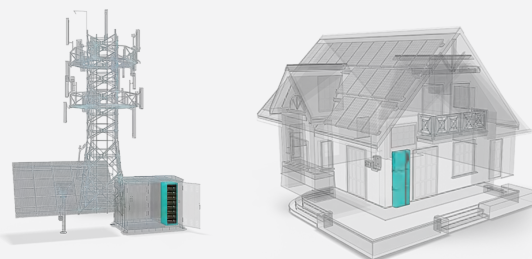
- Laser welding manufacturing techniques to guarantee stable electronic connection
- Reliable structural strength and stability
- Excellent cooling conditions and homogeneity of temperature
- Advanced automatic production to ensure high quality of products and competitive price

Model List

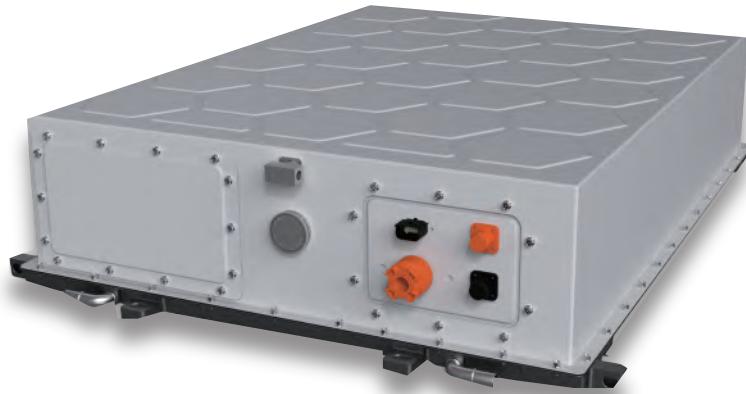
Cell	Configuration	Nominal Capacity(Ah)	Voltage(V)	Nominal Energy(kWh)	Weight (kg)	Dimensions(L*W*H/mm)
40135	4P16S	80	51.2	4.096	26	352*329*175

Applications

Low-speed Electric Vehicle
Energy Storage System
Backup Power



ESS Battery Pack



Features

- Balanced heat transfer performance, excellent cooling conditions and homogeneity of temperature
- Developed with LFP cell to ensure the highest safety
- Intelligent temperature control to adjust temperature automatically to cope with cold and heat
- Multi-physics simulation technology and thermal runaway prevention technology are applied
- The integrated liquid-cooled units selected are featured in adaptive adjustment of the operating state, reducing the auxiliary loss by 30%

Model List

Item	Pack	
Type	ESS	ESS
Cooling Method	Fan cooling	Liquid cooling
Model	48-280-F	153-280-L
Configuration	1P15S	1P48S
Capacity (Ah)	280	280
Voltage(V)	48	153.6
Energy(kWh)	13.44	43
Dimensions(mm)	W510*D647*H240	W858*D1067*H240
Communication	CAN	CAN/Daisy chain
Weight	100kg±5kg	300kg±8kg
IP level	IP20	IP67

Applications

Distributed Energy Storage System

Micro-grid Energy Storage System

Charging-Discharging Storage Integrated Station

Urban Energy Storage Station

Commercial Energy Storage

ESS Battery Rack

Features

- Balanced heat transfer performance, excellent cooling conditions and homogeneity of temperature
- Multi-physics simulation technology and thermal runaway prevention technology are applied
- 24-h monitoring, big data-based early warning, strong compatibility with Grid/Off-grid
- Intelligent temperature control to adjust temperature automatically to cope with cold and heat
- The integrated liquid-cooled units selected are featured in adaptive adjustment of the operating state, reducing the auxiliary loss by 30%
- Modular structure design is able to compose varieties of electric voltage platform flexibly, all kinds of capacity level systems, and easy to maintain or repair



Model List

Item	Rack	
Cooling Method	Fan Cooling	Liquid Cooling
Model	720-280-F	1228.8-280-L
Configuration	1P225S	1P384S
Capacity	280Ah	280Ah
Nominal Voltage	720V	1228.8V
Voltage Range	630V-810V	1075.2V-1382.4V
Standard Charge/Discharge Power	100kW	172kW
Operation Temperature	Charge: 0°C-55°C	Charge: 0°C-55°C
	Discharge: -20°C-55°C	Discharge: -20°C-55°C
Self-discharge Rate	≤3%/month	≤3%/month
Energy	201 kWh	344 kWh
Dimensions	W1170*D655*H2240mm	W862*D996*H2339mm
Communication	CAN2.0	CAN2.0
Weight	1800kg	2700kg
Storage Humidity	<75% RH, No Condensation	<75% RH, No Condensation
IP level	IP20	IP54

Applications

Distributed Energy Storage System

Micro-grid Energy Storage System

Charging-Discharging Storage Integrated Station

Urban Energy Storage Station

Commercial Energy Storage

Portable Power Station

Features

- Small size, light weight, easy to handle
- Customized services available, including color, handle and other appearance
- Ultra safety and ultra reliability
- Fast charge with 1.5h max
- 13 output ports
- Bluetooth and UPS function supported



Model List

Item	F1201B		
Battery Type	LFP		
Cell Capacity	20 Ah		
Cell Voltage	3.2 V		
Configuration	2P8S		
AC Output	Rated Power 1200 W	Pulse Power 1800 W	
USB Output	2*USB-A 12 W, 2*QC 18 W, 2*PD 100 W		
12V Output	1*Cigarette Lighter, 2*DC5521 MAX 120 W		
Car Charging	MAX 120 W		
PV Charging	MAX 400 W		
AC Charging	MAX 950 W		
Working Temperature	Charge: 0-45°C	Discharge: -10-45°C	Storage: -10-45°C
N.W.	14.3kg		
Dimensions	330*225*301 mm		
Certificates	PSE, PCC, CE, MSDS, UN38.3		

Applications

Recreational Vehicles, UPS, Self-driving, Outdoor Camping, Fishing, etc

Partnership



ASIASTAR



YUTONG



BATTERY SOLUTION EXPERT



Global Reference

Lithium ion batteries provider with extensive experience and proven reference projects

Globally Delivered Capacity

Europe 315MWh	North America 155MWh	Africa 135MWh
Asia&Pacific 41MWh	Others 29MWh	



Headquarters Next Generation Energy Tech Co., Ltd

Add: Building 9, No. 988 Xinxing Second Road, Pinghu, Jiaxing, Zhejiang, China
Tel: +86-0573-8579-9929
Email: info@nge-tech.cn
Web: www.nge-tech.cn

International Marketing Center Hercules Energy Co., Ltd

Add: No. 339, Ledu Road, Songjiang District, Shanghai, China
Tel: +86-021-6789-0220
Email: info@hercules-energy.com
Web: www.hercules-energy.com

U.S. Branch ACCU-Power Corporation

Add: 17800 Castleton Street, Suite 670, City of Industry, CA 91748
Tel: +1-626-655-8600
Email: support@accupowerus.com
Web: www.accupowerus.com