



Huiyao

Intelligent Technology (Tianjin) Co., Ltd.

New Energy Technology
Supply Chain
One-Stop Solution



Personal
150+



Plant Area
10800m²

Power System

Cell Solution
LFP

	26148 Platform Products		52148 Platform Products	
	L148F26	L148F88	L148F88	L148F104
Chemical System	LFP	LFP	LFP	LFP
Dimension (mm)	148.2*26.7*78	148*52*104.5	148*52*104.5	148*52*117.5
Nominal capacity (Ah)	25.5	90.2	90.2	106
Nominal voltage (V)	3.22	3.22	3.22	3.22
Gravimetric Energy Density (Wh/kg, 1/3c)	142	179	179	183
Volumetric Energy Density (Wh/L, 1/3c)	266	361	361	377
Operating Voltage (V)	2.5-3.65	2.5-3.65	2.5-3.65	2.5-3.65
Weight (kg)	0.58	1.62	1.62	1.83
Fast Charging (min)	30min@30-80%SOC,25°C		20min@10~80%SOC,25°C	
FC Cycle Life	≥4000times@80%SOH	≥2800times@80%SOH	≥2800times@80%SOH	≥2500times@80%SOH



	30194 Platform Products		50194 Platform Products	
	L194F54A	L194F54A	L194F130E	L194F130E
Chemical System	LFP	LFP	LFP	LFP
Dimension (mm)	194.3*30.3*87.0	194.3*30.3*87.0	194.86*50.7*112.7	194.86*50.7*112.7
Nominal capacity (Ah)	55.4	55.4	133.2	133.2
Nominal voltage (V)	3.22	3.22	3.22	3.22
Gravimetric Energy Density (Wh/kg, 1/3c)	165	165	185	185
Volumetric Energy Density (Wh/L, 1/3c)	348	348	385	385
Operating Voltage (V)	2.5-3.65	2.5-3.65	2.5-3.65	2.5-3.65
Weight (kg)	1.08	1.08	2.32	2.32
Fast Charging (min)	30min@30%-80%SOC,25°C		25min,30-80%SOC@25°C	
FC Cycle Life	≥4000times@80%SOH		≥2500times@80%SOH	

Power System

Cell Solution LFP



	36173 Platform Products		54173 Platform Products
	L173F125A	L173F163A	L173F230CA
Chemical System	LFP	LFP	LFP
Dimension (mm)	174.4*36.4*178	174.4*36.4*220	173.9*53.7*207.2
Nominal capacity (Ah)	127	165	237
Nominal voltage (V)	3.22	3.22	3.22
Gravimetric Energy Density (Wh/kg, 1/3c)	167	174	181.5
Volumetric Energy Density (Wh/L, 1/3c)	367	385	399
Operating Voltage (V)	2.5-3.65	2.5-3.65	2.5-3.65
Weight (kg)	2.45	3.05	4.2
Fast Charging (min)	40min@30-80%SOC,25°C		40min,20%-80%SOC@25°C
FC Cycle Life	≥3000times@80%SOH	≥3000times@70%SOH	≥7000times@70%SOH



	50194 Platform Products	60194 Platform Products	
	L194F130A	L194F167A	L194F168A
Chemical System	LFP	LFP	LFP
Dimension (mm)	194.3*50.7*112.9	194.3*60.7*114.8	194.8*60.7*112.9
Nominal capacity (Ah)	133.2	171	170
Nominal voltage (V)	3.22	3.21	3.21
Gravimetric Energy Density (Wh/kg, 1/3c)	183	193	190
Volumetric Energy Density (Wh/L, 1/3c)	385	405	409
Operating Voltage (V)	2.5-3.65	2.5-3.65	2.5-3.65
Weight (kg)	2.34	2.85	2.87
Fast Charging (min)	20min@10-80%SOC,25°C	30min@10~80%SOC,25°C	25min@30~80%SOC,25°C
FC Cycle Life	≥2000times@80%SOH	2500times@80%SOH	≥2500times@80%SOH

Power System

Cell Solution LFP



	26300 Platform Products	32300 Platform Products
	L300F97A	L300F99A
Chemical System	LFP	LFP
Dimension (mm)	300*25.6*104	300*32*88.3
Nominal capacity (Ah)	98.7	101.36
Nominal voltage (V)	3.22	3.22
Gravimetric Energy Density (Wh/kg, 1/3c)	183	180
Volumetric Energy Density (Wh/L, 1/3c)	408	397
Operating Voltage (V)	2.5-3.65	2.5-3.65
Weight (kg)	1.736	1.815
Fast Charging (min)	25min@10-80%SOC,25°C	15min@30-80%SOC,25°C
FC Cycle Life	≥2200times@ 80% SOH	≥2000times@ 80% SOH



	44221 Platform Products	50160 Platform Products
	L221F131A	L160F100A
Chemical System	LFP	LFP
Dimension (mm)	220.8*44.46*112.0	160*49.9*118.4
Nominal capacity (Ah)	133	100
Nominal voltage (V)	3.22	3.22
Gravimetric Energy Density (Wh/kg, 1/3c)	181.5	164
Volumetric Energy Density (Wh/L, 1/3c)	398	341
Operating Voltage (V)	2.5-3.65	2.5-3.65
Weight (kg)	2.36	1.97
Fast Charging (min)	23min@30-80%SOC,25°C	40min@30-80%SOC,25°C
FC Cycle Life	≥2500times@80%SOH	≥3000times@70%SOH

Power System

Cell Solution LFP



	45300 Platform Products		38300 Platform Products		50300 Platform Products	
	L300F168A	L300F177A	L300F177A	L300F187A	L300F210A	L300F210A
Chemical System	LFP	LFP	LFP	LFP	LFP	LFP
Dimension (mm)	300*45.5*99.0	300*37.8*127.0	300*37.8*127.0	300*50.7*111	300*50.7*111	300*50.7*111
Nominal capacity (Ah)	173	179	179	190	213	213
Nominal voltage (V)	3.21	3.22	3.22	3.22	3.22	3.22
Gravimetric Energy Density (Wh/kg, 1/3c)	186	181	181	175	186	186
Volumetric Energy Density (Wh/L, 1/3c)	411	408	408	362	406	406
Operating Voltage (V)	2.5-3.65	2.5-3.65	2.5-3.65	2.5-3.65	2.5-3.65	2.5-3.65
Weight (kg)	2.98	3.18	3.18	3.49	3.69	3.69
Fast Charging (min)	21min@30-80%SOC,25°C	40min@10-80%SOC,25°C	40min@10-80%SOC,25°C	30min@10~80%SOC,25°C		30min@10~80%SOC,25°C
FC Cycle Life	≥3000times@70%SOH	≥3000times@80%SOH	≥3000times@80%SOH	≥2500times@80%SOH		≥2500times@80%SOH



	OS Platform Products			Cylindrical Battery
	L582F202A	L616F181A	L587F143A	46120
Chemical System	LFP	LFP	LFP	LFP
Dimension (mm)	586*24.3*115	616*24.7*94.5	591*19.3*102	46*120
Nominal capacity (Ah)	204	184	145	28
Nominal voltage (V)	3.21	3.2	3.2	3.21
Gravimetric Energy Density (Wh/kg, 1/3c)	189	195	189	196
Volumetric Energy Density (Wh/L, 1/3c)	400	408	400	450
Operating Voltage (V)	2.5-3.65	2.5-3.65	2.5-3.65	2.5-3.65
Weight (kg)	3.47	3.02	2.45	0.46
Fast Charging (min)	20min@10%-80%SOC,25°C	25min@30%-80%SOC,25°C	20min@10%-80%SOC,25°C	30min@30%-80%SOC,25°C
FC Cycle Life	≥2500times@80%SOH	≥2500times@80%SOH	≥2500times@80%SOH	2000times@80%SOH

Power System

Cell Solution
NCM

	26148 Platform Products		50194 Platform Products	
	L148N50B	L148N58A	L194N149A	L194N161A
Chemical System	NCM	NCM	NCM	NCM
Dimension (mm)	148.2*26.7*101.9	148.2*26.7*105.8	194.3*50.7*112.9	194.3*50.7*112.9
Nominal capacity (Ah)	50.0	58	153.0	165.0
Nominal voltage (V)	3.7	3.73	3.77	3.75
Gravimetric Energy Density (Wh/kg, 1/3c)	215	233	240	252
Volumetric Energy Density (Wh/L, 1/3c)	468	516	519	556
Operating Voltage (V)	2.75-4.30	2.75-4.35	2.8-4.4	2.8-4.35
Weight (kg)	0.86	0.93	2.4	2.46
Fast Charging (min)	50min@5-80%SOC,25°C	50min@5-80%SOC,25°C	10min@20-80%SOC,25°C	20min@10-80%SOC,25°C
FC Cycle Life	≥2000times@80%SOH		≥1500times@80%SOH	



	44221 Platform Products	
	L221N147A	L221N169A
Chemical System	NCM	NCM
Dimension (mm)	220.8*44.5*105.2	220.3*44.5*112.2
Nominal capacity (Ah)	150	173
Nominal voltage (V)	3.76	3.73
Gravimetric Energy Density (Wh/kg, 1/3c)	241	255
Volumetric Energy Density (Wh/L, 1/3c)	546	587
Operating Voltage (V)	2.8-4.35	2.8-4.35
Weight (kg)	2.34	2.53
Fast Charging (min)	15min@30-80%SOC,25°C	40min@5%-80%SOC,25°C
FC Cycle Life	≥2000times@80%SOH	

Power System

Cell Solution NCM



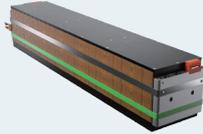
	33221 Platform Products		44221 Platform Products
	L221N107A	L221N113B	L221N122A
Chemical System	NCM	NCM	NCM
Dimension (mm)	220.8*33.4*105.9	220.8*33.4*105.9	220.8*44.5*85
Nominal capacity (Ah)	110.0	115.0	124
Nominal voltage (V)	3.75	3.73	3.74
Gravimetric Energy Density (Wh/kg, 1/3c)	238	239	245
Volumetric Energy Density (Wh/L, 1/3c)	529	550	555
Operating Voltage (V)	2.8-4.35	2.8-4.35	2.8-4.35
Weight (kg)	1.73	1.8	1.89
Fast Charging (min)	15min@30-80%SOC,25°C	50min@5-80%SOC,25°C	30min@10-80%SOC,25°C
FC Cycle Life	≥2000times@80%SOH	≥2000times@80%SOH	≥1500times@80%SOH



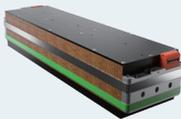
	32300 Platform Products	28300 Platform Products		Cylindrical battery
	L300N129	L300N137B	L300N256A	4695
Chemical System	NCM	NCM	NCM	NCM
Dimension (mm)	300*32.0*93.3	300.0*27.8*111.0	300*37.8*127.0	46*95
Nominal capacity (Ah)	132	140.0	259.0	35.6
Nominal voltage (V)	3.75	3.74	3.68	3.61
Gravimetric Energy Density (Wh/kg, 1/3c)	248	247	281	300
Volumetric Energy Density (Wh/L, 1/3c)	553	591	662	814
Operating Voltage (V)	2.8-4.35	2.8-4.35	2.8-4.35	2.5-4.25
Weight (kg)	2	2.13	3.39	0.43
Fast Charging (min)	15min@30-80%SOC,25°C	20min@10-80%SOC,25°C	55min@10-80%SOC,25°C	10min@10-80%SOC,25°C
FC Cycle Life	≥1500times@80%SOH	≥2000times@80%SOH	1400times@80%SOH	1500times@80%SOH

Power System

Module Solution Commercial Vehicle

						
	D173 Series					
	D173F163-1P24S	D173F163-1P20S	D173F163-2P12S	D173F163-2P10S	D173F125-1P24S	D173F125-1P26S
Capacity (Ah)	163		326		125	
Gravimetric Energy Density Wh/kg@25°C 1/3C	≥167					≥160
Volumetric Energy Density Wh/L 1/3C	342.80	339.50	342.80	339.50	342.80	331.30
FC Cycle Life	≥3000					

Module energy density greater than 150 Wh/kg, suitable for battery electric commercial vehicle and passenger vehicle

						
	D160 Series			D148 Series		221 Series
	D160F100A-1P10S	D160F100A-1P11S	D160F100A-1P12S	D148N58A-3P4S	D148N58A-2P6S	D221N113A-2P8S
Nominal voltage (V)	32	35.2	38.4	14.68	22.02	29.36
Nominal capacity (Ah)	100			174	116	227
Energy(kWh)	3.2	3.52	3.84	2.554		6.66
Module size (mm)	540*163.2*122	590*163.2*122	640*163.2*122	355*151.3*108		590 * 225.5 * 110
Weight (kg)	20.8	22.8	24.8	12.2		≤31.4
Energy density (Wh/kg)	153.8	154.3	154.8	212.8		212.3
Volumetric specific energy (Wh/L)	297.6	299.6	301.4	440.3		455.4
FC Cycle Life	≥2000					

Power System

Module Solution Commercial Vehicle



VDA Series

	D148N58G-3P4S	D148N58G-3P5S	D148N58A-3P6S
Dimension(X×Y×Z,mm)	370*152*108	462*152*108	538*152*108
Grouping method	3P4S	3P5S	3P6S
Nominal energy (kWh,1/3C)	2.64	3.30	3.96
Nominal capacity (Ah, 1/3C)		177	
Nominal voltage (V, 1/3C)	14.92	18.65	22.38
Energy density (Wh/kg)		220	
Cycle life (times)		≥2000	
Thermal safety		0 thermal spread	
Operating temperature range (°c)		-30~55	



590 Series

	D221N118A-2P6S	D221N147A-1P12S	D221N169A-1P12S
Dimension(X×Y×Z,mm)	590*225*88	594*225*108	594*225*115
Grouping method	2P6S	1P12S	1P12S
Nominal energy (kWh,1/3C)	5.42	6.77	7.74
Nominal capacity (Ah, 1/3C)	242	150	173
Nominal voltage (V, 1/3C)	22.38	45.12	44.76
Energy density (Wh/kg)		225	240
Cycle life (times)		≥2000	
Thermal safety		0 thermal spread	
Operating temperature range (°c)		-30~55	

Power System



Pack Solution Commercial Vehicle



Minivan- Standard V pack



High Safety

High-safety lithium iron phosphate (LFP) system matching+high-strength PACK case design, satisfying the safety requirements of GB 38031-2020 standard, only smoke and no fire under the thermal runaway of dual cells;



Long Life

LFP high-cycle electrolyte, meeting the quality assurance requirement of 400,000 km within 8 years;



Wide Temperature Range

Fast charging + thermal management strategy to guarantee the normal use of the battery in a wide temperature range of -30~65°C;



Reliable and Durable

Full life-cycle IP68, chassis undercoating armor, having passed the ball-hit sinking test, and protected from bottom debris impact.

	L173F125		L173F163
TEU	V0	V1	V2
Grouping method	1P96S	1P104S	1P96S
Dimension (mm)	1200*850*200		1200*850*245
Nominal energy (kWh)	38.64	41.85	50.38
Energy density (Wh/kg)	≥135		≥140
Protection class	Full life-cycle IP68		
Thermal method	Natural cooling + Heating film		
Safety performance	Up to national standard GB38031-2020		

Power System

Pack Solution Commercial Vehicle



Light truck - Standard TS pack, T1 pack

- 
High Safety
 High-safety lithium iron phosphate (LFP) system matching + high-strength PACK case design, satisfying the safety requirements of GB 38031-2020 standard, only smoke and no fire under the thermal runaway of dual cells;
- 
Long Service Life
 LFP high-cycle electrolyte with a 8-year warranty of 400,000 km, optional liquid-cooled type with an 8-year warranty of 500,000 km;
- 
Wide Temperature Range
 Fast charging + thermal management strategy to guarantee the normal use of the battery in a wide temperature range of -30~60°C;
- 
High Energy Density
 Lightweight design to realize above 150 Wh/kg high energy density.

	L173F163				L173F178
TEU	T1*2	TS1	TS2	TS3	TS4
Grouping method	1P160S	1P108S	1P156S	1P168S	1P176S
Dimension (mm)	1720*520*245	1560*760*241	1700*760*245	2415*760*240	2300*760*250
Nominal energy (kWh)	83.98	56.68	81.87	88.02	100
Energy density (Wh/kg)	≥150	≥145	≥150	≥155	≥160
Protection class	Full life-cycle IP68				
Thermal method	Liquid cooling/Heating film	Air cooling/Heating film	Liquid cooling/Heating film		
Safety performance	Up to national standard GB38031-2020				

Power System



Pack Solution Commercial Vehicle



E-Coach/E-Bus-Standard C/G Pack



High-safety

LFP system, high-strength aviation aluminum profile container, meeting the safety requirements of national standard GB 38031-2020;



Wide Temperature Range

Integrated thermal management design to guarantee the normal use of the battery in a wide temperature range of -30~60°C;



Reliable and Durable

Full life-cycle IP68 protection, meeting the requirements after the vibration, temperature and humidity test, 24h monitoring;

TEU	L173F163		L173F230	
	C	G	C	G
Dimension (mm)	1060*630*240	950*630*240	1060*630*240	950*630*240
Grouping method	1P72S/2P36S	1P60S/2P30S	1P48S	1P39S
Nominal energy(kWh)	37.79	31.49	35.55	28.88
Energy density (Wh/kg)	>155			
Protection class	Full life-cycle IP68 & IPX9			
Thermal method	Integrated liquid cooling/Heating film			
Safety performance	Up to national standard GB38031-2020			

Power System

Pack Solution Commercial Vehicle



Heavy truck- Standard H Pack



High-safety

LFP system + high-strength aviation aluminum profile container, satisfying the safety requirements of national standard GB 38031-2020, only smoke and no fire under the thermal runaway of dual cells; full life-cycle IP68 protection, meeting the harsh working conditions of heavy trucks;



Wide Temperature Range

Integrated thermal management design to guarantee the normal use of the battery in a wide temperature range of -30~65°C; optional self-heating function in a wide temperature range of -30~65°C; optional self-heating function according to the needs of the whole vehicle to reduce the cost of the whole vehicle;



High Energy Density

Ultra-high cycle system designed to meet the long-warranty requirements of customers; energy density is as high as 160 Wh/kg to improve the overall vehicle range.

TEU	L173F230		L173F314	
	H1	H2	H1	H2
Dimension (mm)	1060*630*240	2020*630*240	1060*630*240	2020*630*240
Grouping method	1P45S	1P96S	1P33S	1P72S
Nominal Penergy (kWh)	33.33	71.1	33.37	72.79
Energy density (Wh/kg)	> 155	> 160	> 155	> 160
Protection class	Full life-cycle IP68			
Thermal method	Integrated liquid cooling/Liquid heating/Heating film			
Safety performance	Up to national standard GB38031-2020			

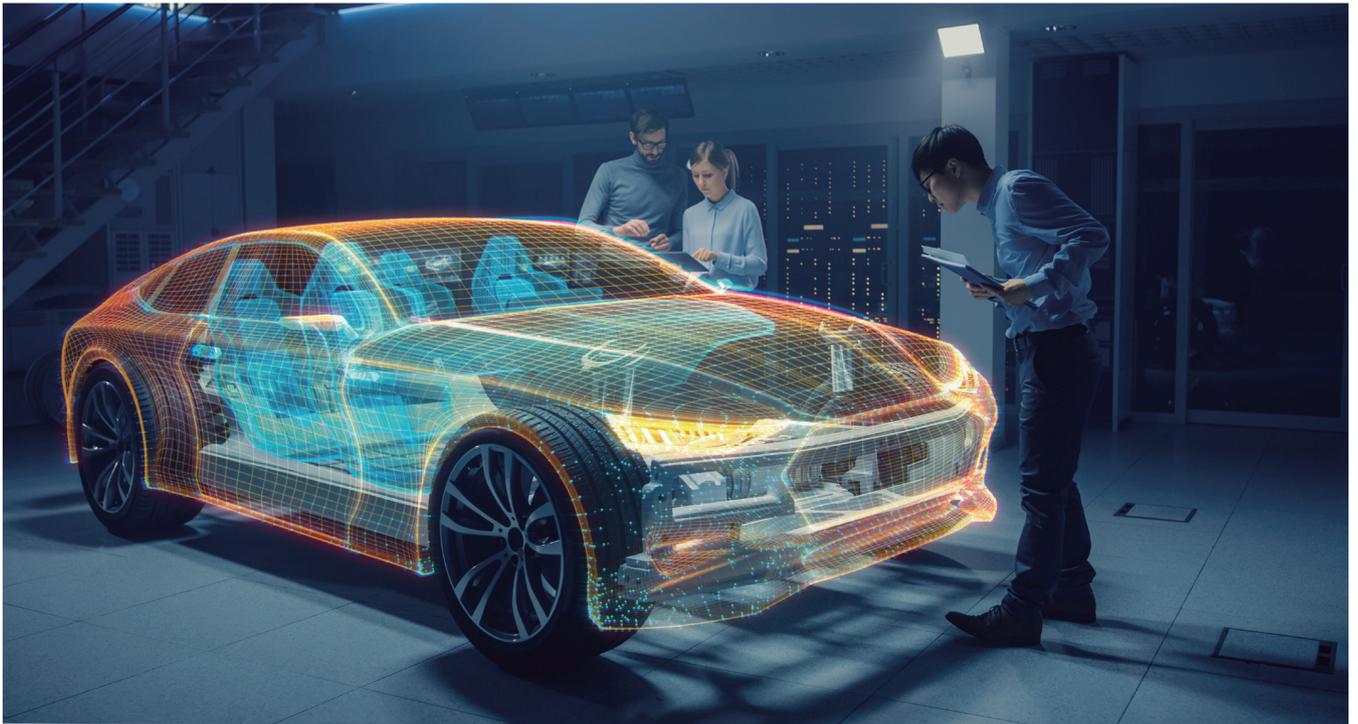
Power System

Pack Solution Passenger Vehicle

For BEV



- 🔋 10kWh~120+kWh multi-platform series products, supporting up to a 1000km pure electric range, fully covering the needs of various BEV models;
- ⚡ High specific energy CIR system design, energy density up to 225Wh/kg, helping to effectively reduce the weight of the whole vehicle;
- ♻️ Efficient multi-dimensional thermal management, extremely fast heating and cooling to ensure user experience in harsh climate;
- 🔌 Meet 2C, 3C, 4C, and other fast charging requirements, and provide ultimate recharging speeds;
- 🛡️ Full-dimensional safety design and protection to ensure the safety of the vehicle and occupants under extreme misuse and emergency conditions;
- 🕒 Both long life and high reliability guarantee for worry-free use throughout the life cycle;
- ⚠️ Support high-order functions such as bottom bump warning and battery health monitoring.



Power System



Pack Solution Passenger Vehicle

For PHEV

- 🔌 A full range of 8kWh~50kWh products, supporting the pure electric range of 50km~200+km;
- 🔌 Peak power output, covering 120kW~400kW+ vehicle needs;
- 🔌 High charging rate as fast as the BEV charging speed;
- 🔌 Efficient multi-dimensional thermal management, extremely fast heating and cooling to ensure user experience in harsh climate;
- 🔌 Both long life and high reliability guarantee for worry-free use throughout the life cycle;
- 🔌 PHEV/REEV proprietary CIR system design for high performance, reliability, and economical efficiency;
- ⚠️ Support high-order functions such as bottom bump warning and battery health monitoring.



Commercial Vehicle Market

With "long life, high energy density, high safety, all-weather, standardization, and high extendibility" as core product competitiveness, our products have been used for pure electric buses, commuter vehicles, logistics vehicles, engineering machinery, etc., and our company is an industry leader in product delivery and supply.



Pure Electric
Urban BRT

*The only BRT power battery
supplier in the industry*



City
Bus

*Stable operation in
100+ cities*



Logistics
Vehicle

*Logistics vehicle market
segmentation top-sales car model*



Boris
Bus

*Exclusive supply for
British Boris bus*



晖耀智能
HUIYAO INTELLIGENCE

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