

CPD30/35/38

A6LIK3-H



LI ION **3-3.8 t**

K3 Series Lithium-ion Battery Forklift Truck



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K3 Series Lithium-ion Battery Forklift Truck

Intelligent Safety

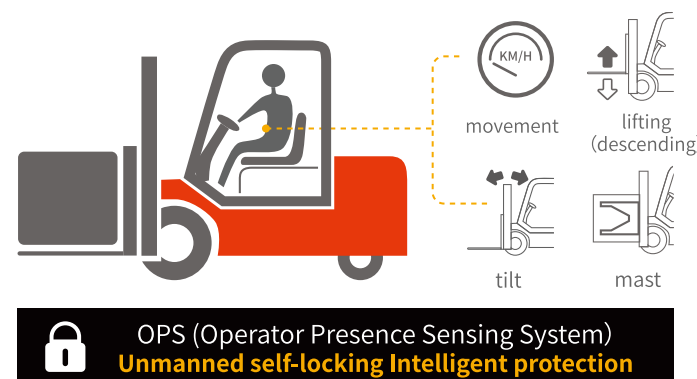
Safeguard the safety of driver

- The standard-equipped P, E, and S three-gear mode switch can meet different driving needs.

P — Power
E — Economy
S — Saving

Multiple gear modes with different performance can be freely selected according to actual working conditions.

- Lithium battery with electric heating function
- Operator Presence Sensing protection
- Hydraulic Pipe Burst Protection, Mast Forward Tilt Self-locking Protection
- Multiple electrical protection (Short-circuit protection, over temperature protection, low battery shutdown protection, Sequential protection)
- Parking Safety Reminder
- Reminder for Slow Rolling on Slopes



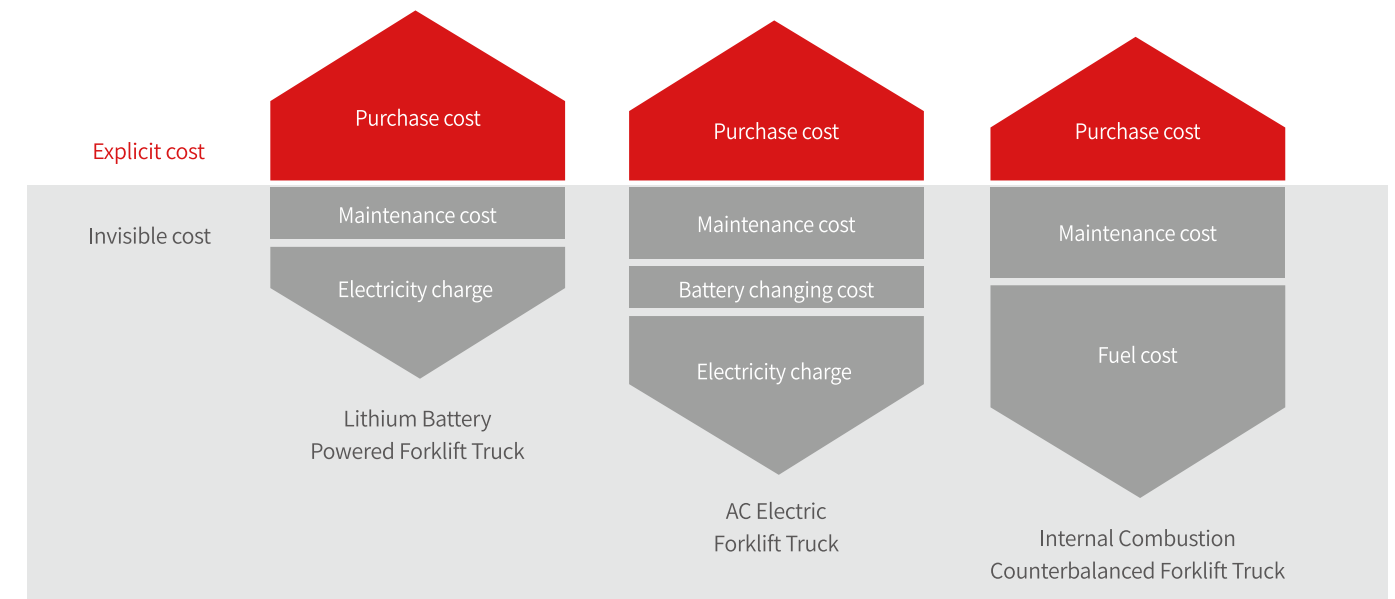
Operating Cost Comparison: Lithium battery forklift **vs.** Lead-acid battery forklift **vs.** IC forklift

The advantages of HELI lithium battery forklift trucks are more prominent in the life cycle cost.

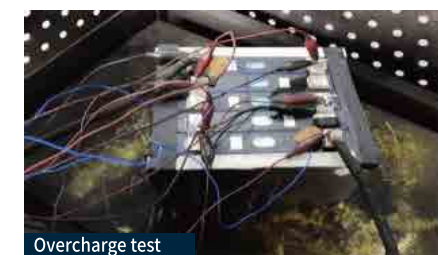
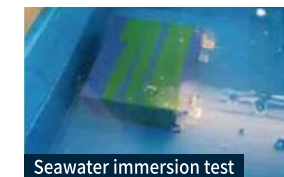
Compared with internal combustion forklift truck, lithium battery forklift truck has the advantages of no noise, no pollution, small vibration and simple operation.

Compared with the lead-acid battery forklift truck, lithium battery forklift has the characteristics of fast charging and charging at any time, which is more suitable for multi shift operation.

Besides, HELI lithium battery forklift is maintenance free, high power conversion efficiency, and economical overall operation cost.



Lithium Battery Advantages



- The truck selects mature and economical square iron phosphate lithium battery core and module used by large numbers of commercial vehicles;
- The module adopts aluminum alloy plate frame, which is firm, light in weight and has good heat dissipation effect;
- Fast charging: fast charging makes truck gapless operation possible, and it can be fully charged in up to one hour;
- High efficiency and safety: The charging and discharging efficiency is up to 98%, and temperature of thermal runaway is over 600 °C;
- Low temperature adaptability: Standard configuration of heating function ensures normal operation of low temperature environment;
- Long service life: Over 75% capacity reserved after 5 years or ten thousand hours.
- Maintenance free: the battery does not need manual maintenance and does not need to add distilled water electrolyte;
- Green and clean: no pollution and zero emission.

Energy-saving and comfortable

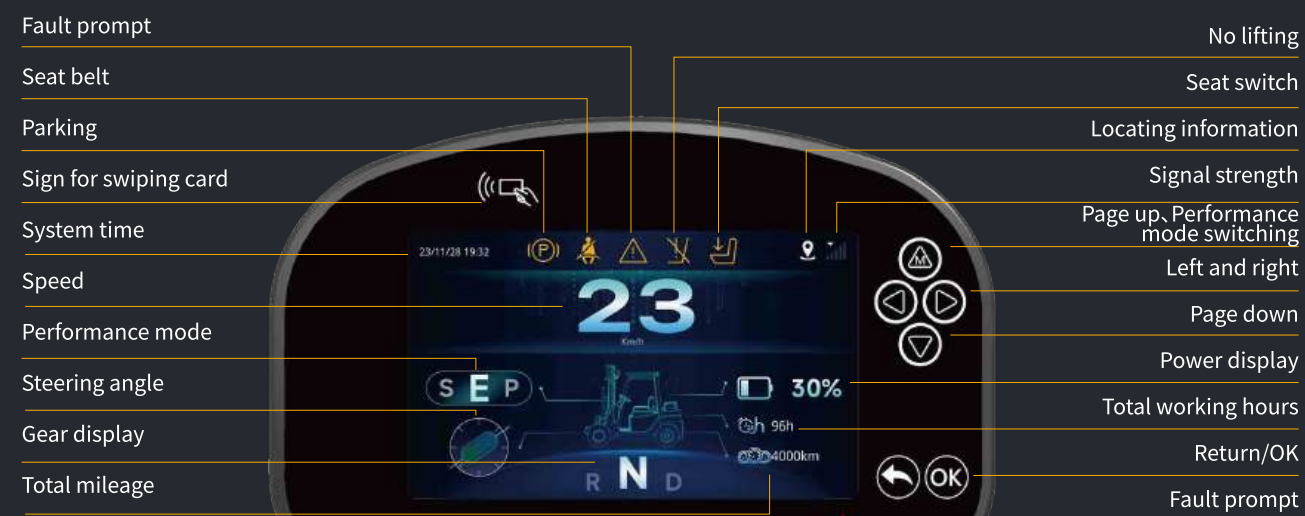
High driving and riding comfort



More robust boarding handle



Large-capacity lithium battery, optional battery side pulling model



Complemented by a 5-inch color LCD screen boasting high brightness and resolution, along with an even clearer human-machine interface.



Extra-large boarding space



Multiple charging methods, with a standard REMA interface and an optional Chinese national standard charging interface.

Stable and efficient

Ensure the high efficiency and reliability of the entire vehicle.



Small turning radius



Meet EU standards



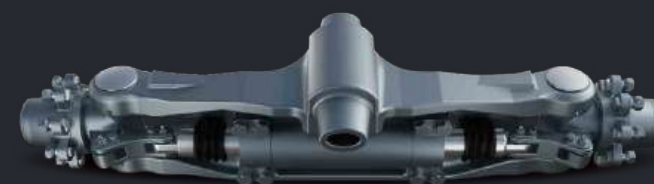
The upper crossbeam of the mast is a frame structure, which has a reasonable force bearing and can improve the rigidity and strength of the mast.

Composite rollers are designed and applied to improve the lateral installation control accuracy of the fork carriage.

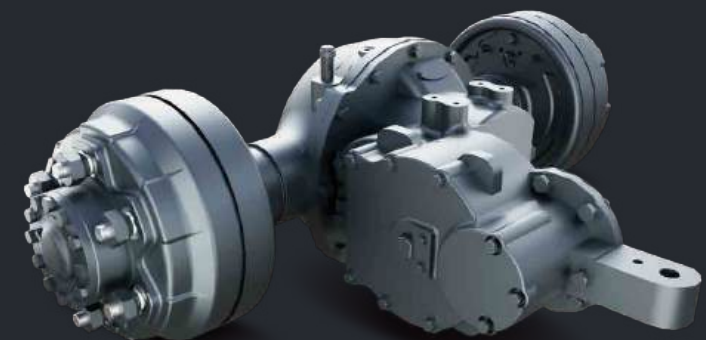


Reinforced rim, which is made more sturdy and durable by optimizing the rim structure.

- Large reduction ratio transmission, low input and high output, and the forklift has strong power;
- Multiple gears work together to bear the load, featuring super durability and less maintenance.
- The characteristic of large contact ratio results in stable transmission and low noise.
- Compact structure and low maintenance cost;



Casting type steering axle, reliable and durable



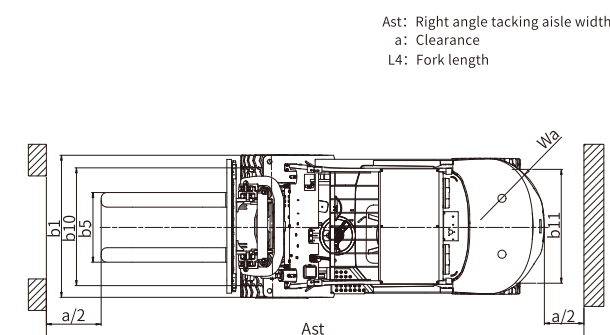
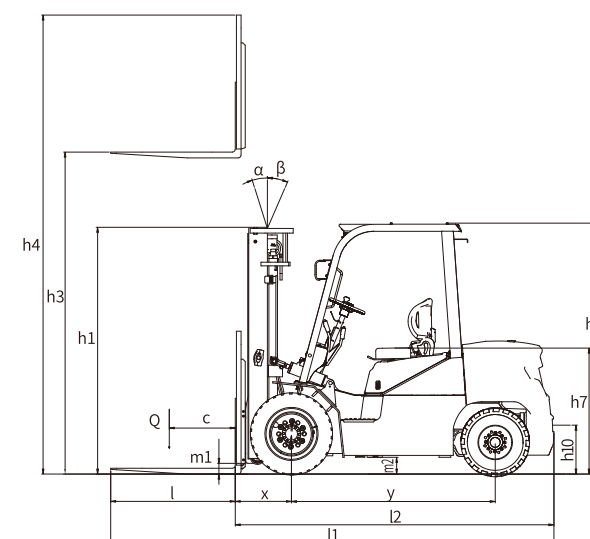
Convenient maintenance

Easy operation for drivers.

The hood can be opened at a large angle for easy maintenance.

Manufacturer and Technical Data

	Characteristic				
1.01	Manufacturer			HELI	
1.02	Model			CPD30	CPD35 CPD38
1.03	Configuration No.			A6LIK3-H	
1.04	Rated capacity	Q	kg	3000	3500 3800
1.05	Load center distance	c	mm	500	
1.06	Power type			Lithium battery	
1.07	Driving type			Seated	
1.08	Front overhang	x	mm	477	482 482
1.09	Wheel base	y	mm	1750	
	Weight				
2.01	Weight (with battery)		kg	4300	4657 4827
2.02	Axle load: laden, front/rear		kg	6437/863	7264/893 7720/907
2.03	Axle load: unladen, front/rear		kg	1754/2546	1800/2857 1785/3042
	Tyres				
3.01	Tyre type			Pneumatic/Pneumatic	
3.02	Tyre, front			28×9-15-14PR	
3.03	Tyre, rear			6.50-10-10PR	
3.04	Wheel No. (front/rear)			2/2	
3.05	Front track	b10	mm	1000	
3.06	Rear track	b11	mm	970	
	Dimensions				
4.01	Mast tilt angle (forward/backward)	α/β	°	6/12	
4.02	Height, mast lowered	h1	mm	2070	2120 2180
4.03	Free lifting height	h2	mm	155	160 160
4.04	Lifting height (standard)	h3	mm	3000	
4.05	Max. height, extended (with backrest)	h4	mm	4217	
4.06	Height of overhead guard	h6	mm	2150	
4.07	Overall length (with fork)	l1	mm	3800	3805 3830
4.08	Overall length (without fork)	l2	mm	2732	2738 2758
4.09	Overall width	b1	mm	1225	
4.10	Fork carriage, according to ISO2328			3A	
4.11	Fork size: thickness x width x length	s/e/l	mm	45×125×1070	50×125×1070 50×125×1070
4.12	Distance across fork-arms, Max./Min.	b5	mm	1060/250	
4.13	Ground clearance (at mast)	m1	mm	135	
4.14	Ground clearance (center of wheelbase)	m2	mm	145	
4.15	Right angle stacking asile width for pallet 1000*1200mm crossways	Ast	mm	4065	4070 4090
4.16	Right angle stacking asile width for pallet 800*1200mm lengthways	Ast	mm	4265	4270 4290
4.17	Min. outside turning radius	Wa	mm	2350	2350 2370
	Performance data				
5.01	Travel speed (laden/unladen)		km/h	18/19 17/18	
5.02	Lift speed (laden/unladen)		mm/s	400/500	380/480 360/480
5.03	Lowering speed (laden/unladen)		mm/s	450/500	
5.04	Max.drawbar pull (laden)		N	19000	19000 19000
5.05	Max.gradeability (laden/unladen)		%	20/25	18/20 17/17
	Battery				
6.01	Battery, DIN standard			43531A	
6.02	Battery voltage/Capacity (5-hour discharge capacity)		V/Ah	80/230	
6.03	Battery weight		kg	158	158 158
	Motor and controller				
7.01	Driving motor powering (S2-60min)		kW	17	
7.02	Lifting motor powering (S3-15%)		kW	22	
7.03	Driving motor controlling mode			MOSFET/AC	
7.04	Lifting motor controlling mode			MOSFET/AC	
	Addition data				
8.01	Service brake/Parking brake			Hydraulic/mechanical	
8.02	Operating pressure for attachments		Mpa	16	



Ast: Right angle tacking aisle width
a: Clearance
L4: Fork length

3-3.8t Mast configuration table

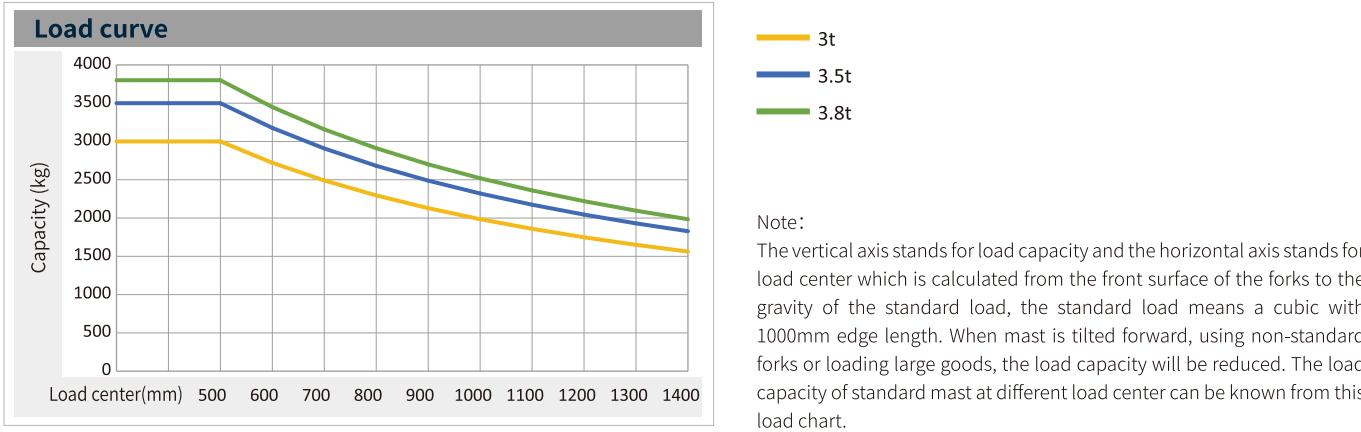
Mast Type	Mast model	Max. lifting height (mm)	Load capacity(lode center500mm)(kg)			Free lift(mm)						Height(mm)									Service weight (kg)			Mast tilt angle (°)α/β
												Mast lowered			Max. height,extended									
			without backrest			with backrest			without backrest			with backrest			3t	3.5t	3.8t	3t	3.5t	3.8t				
2-stage standard Mast	M200	2000	3000	3500	3800	155	160	160	155	160	160	1570	1620	1680	2741	2791	2831	3217	3217	3217	4200	4547	4717	6-12
	M250	2500	3000	3500	3800	155	160	160	155	160	160	1820	1870	1930	3241	3291	3331	3717	3717	3717	4250	4607	4777	6-12
	M300	3000	3000	3500	3800	155	160	160	155	160	160	2070	2120	2180	3741	3791	3831	4217	4217	4217	4300	4657	4827	6-12
	M330	3300	3000	3500	3800	155	160	160	155	160	160	2220	2270	2330	4041	4091	4131	4517	4517	4517	4320	4687	4857	6-12
	M350	3500	3000	3500	3800	155	160	160	155	160	160	2320	2370	2430	4241	4291	4331	4717	4717	4717	4340	4707	4877	6-12
	M370	3700	3000	3500	3800	155	160	160	155	160	160	2420	2470	2530	4441	4491	4531	4917	4917	4917	4360	4727	4897	6-12
	M400	4000	3000	3500	3800	155	160	160	155	160	160	2620	2670	2730	4741	4791	4831	5217	5217	5217	4440	4817	4987	6-12
	M425	4250	2900 *3000	3250 *3400	3650 *3800	155	160	160	155	160	160	2745	2795	2855	4991	5041	5081	5467	5467	5467	4470	4837	5007	6-6 *6-12
	M450	4500	2850 *3000	3100 *3350	3350 *3700	155	160	160	155	160	160	2870	2920	2980	5241	5291	5331	5717	5717	5717	4490	4867	5037	6-6 *6-12
	M500	5000	2550 *2850	2800 *2900	2850 *3200	155	160	160	155	160	160	3120	3170	3230	5741	5791	5831	6217	6217	6217	4540	4917	5087	6-6 *6-12
M550	5500	2250 *2650	2350 *2700	2650 *3000	155	160	160	155	160	160	3420	3470	3530	6241	6291	6331	6717	6717	6717	4640	5027	5197	3-6 *3-6	
M600	6000	1550 *2200	1750 *2300	2200 *2800	155	160	160	155	160	160	3670	3720	3780	6741	6791	6831	7217	7217	7217	4680	5077	5247	3-6 *3-6	
2-stage full free Mast	ZM200	2000	3000	3500	3800	864	869	889	388	443	503	1570	1620	1680	2735	2785	2825	3211	3211	3211	4220	4567	4737	6-12
	ZM250	2500	3000	3500	3800	1114	1119	1139	638	693	753	1820	1870	1930	3235	3285	3325	3711	3711	3711	4270	4617	4787	6-12
	ZM300	3000	3000	3500	3800	1364	1369	1389	888	943	1003	2070	2120	2180	3735	3785	3825	4211	4211	4211	4320	4677	4847	6-12
	ZM330	3300	3000	3500	3800	1514	1519	1539	1038	1093	1153	2220	2270	2330	4035	4085	4125	4511	4511	4511	4350	4707	4877	6-12
	ZM350	3500	3000	3500	3800	1614	1619	1639	1138	1193	1253	2320	2370	2430	4235	4285	4325	4711	4711	4711	4370	4727	4897	6-12
	ZM370	3700	3000	3500	3800	1714	1719	1739	1238	1293	1353	2420	2470	2530	4435	4485	4525	4911	4911	4911	4390	4747	4917	6-12
	ZM400	4000	3000	3500	3800	1914	1919	1939	1438	1493	1553	2620	2670	2730	4735	4785	4825	5211	5211	5211	4470	4827	4997	6-12
	ZM425	4250	2900 *3000	3250 *3400	3650 *3800	2039	2044	2064	1563	1618	1678	2745	2795	2855	4986	5036	5076	5462	5462	5462	4500	4857	5027	6-6 *6-12
	ZM450	4500	2850 *3000	3100 *3350	3350 *3700	2164	2169	2189	1688	1743	1803	2870	2920	2980	5235	5285	5325	5711	5711	5711	4520	4887	5057	6-6 *6-12
	ZM500	5000	2550 *2850	2800 *2900	2850 *3200	2414	2419	2439	1938	1993	2053	3120	3170	3230	5735	5785	5825	6211	6211	6211	4580	4947	5117	6-6 *6-12
ZM550	5500	2250 *2650	2350 *2700	2650 *3000	2714	2719	2739	2238	2293	2353	3420	3470	3530	6235	6285	6325	6711	6711	6711	4680	5047	5217	6-6 *6-6	
ZM600	6000	1550 *2200	1750 *2300	2200 *2800	2964	2969	2989	2488	2543	2603	3670	3720	3780	6735	6785	6825	7211	7211	7211	4730	5097	5267	6-6 *6-6	
3-stage full free Mast	ZSM360	3600	3000	3500	3800	1114	1119	1139	688	693	753	1870	1870	1930	4395	4395	4435	4821	4821	4821	4440	4767	4937	6-6
	ZSM400	4000	3000	3500	3800	1264	1269	1264	838	843	878	2020	2020	2055	4795	4795	4835	5221	5221	5221	4480	4807	4977	6-6
	ZSM435	4350	2850 *2950	3100 *3300	3300 *3700	1364	1369	1394	938	943	1008	2120	2120	2180	5145	5145	5185	5571	5571	5571	4510	4837	5007	6-6 *6-6
	ZSM450	4500	2800 *2900	3050 *3200	3250 *3600	1414	1419	1439	988	993	1053	2170	2170	2230	5295	5295	5335	5721	5721	5721	4520	4847	5017	6-6 *6-6
	ZSM470	4700	2750 *2850	3000 *3100	3050 *3350	1474	1479	1504	1048	1053	1118	2230	2230	2295	5495	5495	5535	5921	5921	5921	4540	4867	5037	6-6 *6-6
	ZSM480	4800	2700 *2800	2950 *3100	3000 *3300	1514	1519	1539	1088	1093	1153	2270	2270	2330	5595	5595	5635	6021	6021	6021	4550	4877	5047	6-6 *6-6
	ZSM500	5000	2600 *2750	2800 *2950	2800 *3200	1614	1619	1639	1188	1193	1253	2370	2370	2430	5795	5795	5835	6221	6221	6221	4580	4907	5077	6-6 *6-6
	ZSM540	5400	2300 *2700	2450 *2650	2450 *2900	1714	1719	1764	1288	1293	1378	2470	2470	2555	6195	6195	6235	6621	6621	6621	4610	4937	5107	3-6 *3-6
	ZSM600	6000	1500 *2100	1750 *2350	1750 *2600	1914	1919	1989	1488	1493	1603	2670	2670	2780	6795	6795	6835	7221	7221	7221	4710	5037	5207	3-6 *3-6
	ZSM650	6500	1000 *1800	1000 *1900	1050 *2300	2114	2119	2179	1688	1693	1793	2870	2870	2970	7295	7295	7335	7721	7721	7721	4770	5097	5287	3-3 *3-3
ZSM700	7000	700 *1400	900 *1500	950 *2000	2289	2294	2449	1863	1868	2063	3045	3045	3240	7795	7795	7835	8221	8221	8221	4820	5147	5337	3-3 *3-3	

Note: * refers to the rated load capacity of double-tyres for front wheels.

Lithium battery										
Battery brand	HEDING									
Voltage/Capacity	80V/150Ah	80V/202Ah	80V/230Ah	80V/250Ah	80V/300Ah	80V/304Ah	80V/346Ah	80V/404Ah	80V/460Ah	80V/608Ah
2-2.5t M	●	○	○	○	○	—	○	○	○	—
2-2.5t H	—	●	○	○	○	—	○	○	○	—
3-3.8t M	—	●	○	—	—	○	○	○	○	○
3-3.8t H	—	—	●	—	—	○	○	○	○	○

Note: “●” Standard; “○” Optional “—” Non-configurable

Charger			
Model		D80V100ALI-438	D80V200ALI-123/D80V200ALI-423
Wiring type		Three-phase four-wiring type	
Power of charger	KVA	10	22
Air switch model of Upper level power	A	32	63
Input voltage range	Vac	380±15%	
Input current	A	<20A	<40A
Output current	A	5-100	5-200
Protection level		For indoor use	
Working ambient temperature	°C	-20~+45	
Plugs and sockets		REMA320	Charger meeting national standard
Charging time		Full charging time-required charging capacity/charging current+0.2h. For example: the battery capacity is 80V/202Ah, and the dischargi state is alarmed by instrument, The charger is 100A, thus the full charging time is 202*0.9/100+0.2≈2.02h	



Note: "●" Standard; "○" Optional.
Some non-standard options need to be customized. Please consult local sales personnel or product development technicians before purchasing.

Vehicle positioning
Remote diagnosis
Remote monitoring
Maintenance reminder
Battery management
Statistical form
Vehicle management
Identification recognition (optional)
Weight management (optional)
Collision management (optional)

