



E Series High Voltage
Lithium Battery

CPD60/70/80-EH



CREATING A BETTER FUTURE



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Media Platform

LG-PB-CPD60/70/80-EH-05202404-EN

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TOUGH WORLD.TOUGH EQUIPMENT.

SAVE TIME ,ADVANCED AND EFFICIENT

Excellent performance compare with IC forklift

- LiuGong's patented VCU , providing good handling and productivity;
- CATL Lithium battery with 4000 cycles life,storage capacity loss rate less than 20% after 6 year;
- High speed permanent synchronous motor match with high speed gear box,providing good traveling performance,higher than IC forklift,more suitable for long-distance handling.



Fast charging, Long run time

- Standard 70.4kWh battery ;
- Optional 105kWh battery,run time 6-9 hours,meet heavy duty and long distance operation;
- Super fast charging -1 hour full charging;
- Fit with electrical car charging pile,more convenient to charge.



Precise control ,comfort driving, Intelligent management

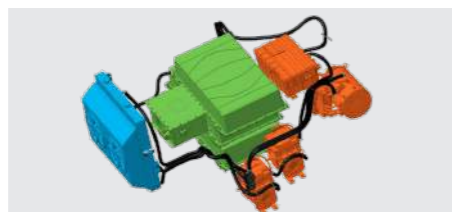
- Ergonomically simulation human factors designed driver's cab, enhanced driver confort and safety;
- Elector-hydraulic transmission system optimization and fulfil, powerful acceleration, accurate control thanks to hydraulic micro-motion performance.



HIGH PERFORMANCE AND MAXIMUM SAFETY

Reliability and durable

- Using internal combustion mast, frame system, high strength, to meet the steel, port and other heavy load application;
- The standard battery heating and cooling function and hydraulic oil radiator can work at the ambient temperature of -35 to 45°C in different areas and application.



Safe and worry-free

- Standard OPS, curve deceleration, steep descent, lowering cylinder buffer, general power on & off and other safety functions;
- Set Manual Service Disconnect (MSD) maintenance switch, switch of the power, make maintenance more secure.



High grade dustproof and waterproof, meet the all-weather operation

- Automotive-grade permanent magnet synchronous motor system with energy regeneration function, motor, electric control, battery depth optimized and fulfilled, energy consumption reduced by 15%-20%, to achieve long-term operation, energy saving and emission reduction, dual advantages, to reach the industry leading level;.



SAVE MONEY ,LOW TCO

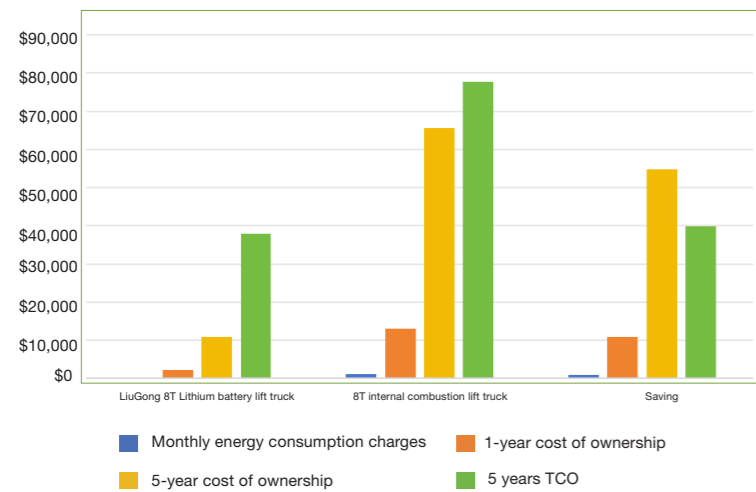
High efficiency, low using cost

- Automotive-grade permanent magnet synchronous motor system with energy recovery function, motor, electric control, battery depth optimized and matched, energy consumption reduced by 15%-20%, to achieve long-term operation and energy saving and emission reduction, dual advantages, to reach the industry leading level;

Simple maintenance and low maintenance cost

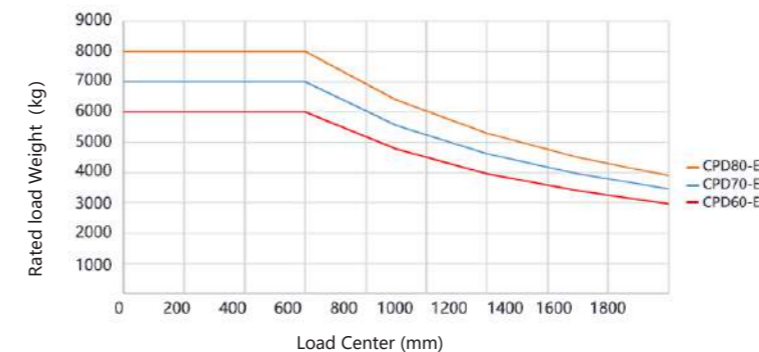
- Covering parts and lubrication points maintenance are simple and convenient,economy.

TCO Comparison



MAST AND CAPACITY INFORMATION

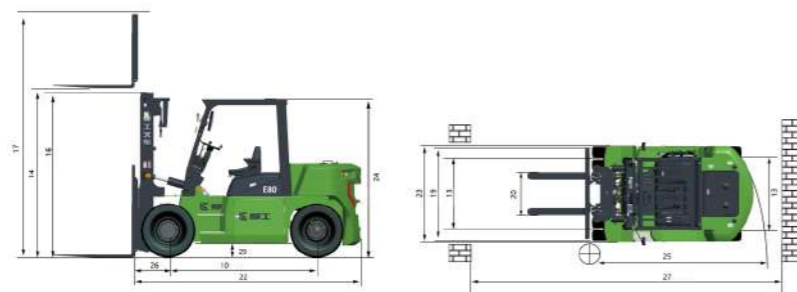
Mast type	Maximum Fork Height (mm)	Mast lowered height (mm)	Mast lifting height (mm)		Free Lift with Load Backrest (mm)		Mast Tilt Angle (°)	Rated Load Capacity						Total Weight with Standard Forks		
			With load backrest	Without load backrest	6/7t	8t		With Standard Forks			With Sideshifter			6t	7t	8t
								6t	7t	8t	6t	7t	8t			
Standard 2-Stage	2500	2275	3920	3662	195	200	6/12	6000	7000	8000	5700	6700	7700	9199	9799	10779
	3000	2525	4420	4162	195	200	6/12	6000	7000	8000	5700	6700	7700	9280	9880	10860
	3500	2775	4920	4662	195	200	6/12	6000	7000	8000	5700	6700	7700	9362	9962	10942
	4000	3075	5420	5162	195	200	6/12	6000	7000	8000	5700	6700	7700	9461	10061	11041
	4500	3325	5920	5662	195	200	6/12	6000	7000	8000	5700	6700	7700	9611	10211	11191
	5000	3575	6420	6162	195	200	6/6	6000	7000	8000	5700	6700	7700	9694	10294	11274
	5500	3875	6920	6662	195	200	6/6	5700	6600	7300	5400	6300	7000	9856	10456	11436
	6000	4125	7420	7162	195	200	6/6	5400	6400	6500	5100	6100	6200	9939	10539	11519
Full Free 2-Stage	2500	2275	3915	3657	1168	1173	6/12	6000	7000	8000	5700	6700	7700	9137	9737	10717
	3000	2525	4415	4157	1418	1423	6/12	6000	7000	8000	5700	6700	7700	9207	9807	10787
Full Free 3-Stage	4000	2565	5410	5225	1438	1443	6/12	5600	6200	7000	5300	5900	6700	9673	10273	11253
	4500	2735	5920	5735	1608	1613	6/12	5600	6200	7000	5300	5900	6700	9757	10357	11337
	5000	2902	6424	6236	1775	1780	6/6	5600	6200	7000	5300	5900	6700	9841	10441	11421
	5500	3068	6916	6734	1941	1946	6/6	5400	6000	6600	5100	5700	6300	9994	10594	11574
	6000	3234	7418	7232	2107	2112	6/6	5100	5600	6100	4800	5300	5800	10063	10663	11643



Note:
Vertical axle stands for load capacity while horizontal axle stands for load center, Load center is the distance counted from the front of the fork. The base point of the standard load is the center point of the cubic with the same 1200mm dimension in length, width and height. The load capacity should be down if mast tilt forward or using non-standard forks of loading goods with extra width. Please realize the different load capacity between different load centers according to load chart.

PRODUCT SPECIFICATIONS

General	Model	1			CPD60-EH	CPD70-EH	CPD80-EH	
		Power Type	2			Electric	Electric	Electric
Weights	Base Capacity	3	Rated load center	kg	6000	7000	8000	
	Load Center	4		mm	600	600	600	
Weights	Service Weight	5	Unloaded	kg	9280	9880	10860	
	Axle Load	6	Full load,front/rear	kg	13634/1721	15119/1836	16582/2353	
7		Unloaded,front/rear	kg	4486/4794	4459/5421	4392/6468		
Tires	Tire Type	8	Front /rear		Pneumatic	Pneumatic	Pneumatic	
	Wheels	9	Front /rear		4/2	4/2	4/2	
	Wheelbase	10		mm	2300	2300	2300	
	Tire Size	11	Front			8.25-15-14PR	8.25-15-14PR	8.25-15-16PR
		12	Rear			8.25-15-14PR	8.25-15-14PR	8.25-15-16PR
Tread Width	13	Front /rear	mm	1474/1730	1474/1730	1474/1730		
Mast	Max. Fork Height	14	Std 2-Stage mast	mm	3000	3000	3000	
	Free lift	15	Std 2-Stage mast	mm	195	195	200	
	Height, mast lowered	16	Std 2-Stage mast	mm	2525	2525	2525	
	Height, mast extended	17	Std 2-Stage mast	mm	4162	4162	4162	
	Mast tilt, fwd/back	18	Std 2-Stage mast	°	6/12	6/12	6/12	
	Fork carriage	19		mm	1845	1845	1845	
Chassis	Fork spread	20	Min/Max	mm	300/1840	300/1840	300/1840	
	Fork dimensions	21	T x W x L	mm	65×150×1220	65×150×1220	70×150×1220	
	Overall Length (to the front end of the fork)	22	Std 2-Stage mast	mm	3500	3500	3561	
		23		mm	2020	2020	2020	
	Overhead Guard Height	24		mm	2428	2428	2428	
	Turning Radius	25		mm	3300	3300	3350	
	Fork Overhang	26	Std 2-Stage mast	mm	578	578	583	
	Right Angle Stack	27		mm	5298	5298	5353	
	Ground Clearance	28	Load below mast	mm	200	200	200	
		29	Center of wheelbase	mm	215	215	215	
Battery size	30	L×W×H	mm	1260×710×600	1260×710×600	1260×710×600		
Performance	Travel speed	31	Full load/unloaded	km/h	25/26	25/26	25/26	
	Lift speed	32	Full load/unloaded	mm/s	510/530	510/530	510/530	
	Lower speed	33	Full load/unloaded	mm/s	450/400	450/400	450/400	
	Max. traction force	34	Full load/unloaded	%	30/25	28/25	27/25	
Systems	Brake System	35	Service		Foot/Hyd	Foot/Hyd	Foot/Hyd	
		36	Parking		Hand / Mech	Hand / Mech	Hand / Mech	
	Electric-control	37	Electrical control, motor type		Permanent magnet synchronization			
	Motor	38	Drive motor power	kW	58	58	58	
		39	Work pump motor power	kW	28+28	28+28	28+28	
	Battery	40	Types		Lithium battery	Lithium battery	Lithium battery	
		41	Voltage	V	308	308	308	
		42	Capacity (5h)	Ah	228	228	228	
		43	Battery capacity	kwh	70.4	70.4	70.4	
		44	Weight	kg	650	650	650	



STANDARD CONFIGURATION

STANDARD CONFIGURATION	
● Permanent magnet synchronous motor	● E-S-P work mode
● Liugong VCU Truck controller	● Full suspension seat
● Lithium battery 308 V/70.4 kwh	● Overhead guard
● Battery heating	● Two function valve
● Cooling system for battery and motor	● Pneumatic tires
● Hydraulic oil radiator	● 2-stage 3m wide visual mast
● GB charging port	● Standard fork carriage(width 1.85m)
● Power supply DC-DC	● Standard backrest(width 1.85m)
● Multifunctional LCD display	● Standard 1520mm long forks
● LED front and rear combined lights	● Metal hood
● OPS system	● Metal side panels
● lowering cylinder with buffer function	● False touch prevention hood gas spring
● manual service disconnect (MDS) service switch	● Anti-mistouch mechanism handbrake
● Emergency switch	● Low noise gear pump
● Curve deceleration	● Rear grab handle with horn button
	● left and right dual rear mirror

OPTIONAL CONFIGURATION	
● Lithium battery 347.7 V/105 kwh	● AC with heater and cooling function
● Lithium battery charger (GB,3phase 380V,60kw/150Ah)	● Heater
● Three Function valve	● Reversing video system
● Four Function valve	● Master key
● solid tires	● Customized color
● Grammer seat	● Three rear mirrors
● Enclosed cab	● Fire extinguisher
● Overhead with protective transparent plate on the top	● Tilt cylinder cover
● overhead with metal protective plate on the top	● widen fork carriage
● Overhead with windscreen	● widen load backrest
● Amber warning light	● Other Fork length
● Rear work light	● Fork positioning
● Line-spot light (left rear right)	● Side shifting
● blue spot lights	● Other specifications attachment