



E Series High Voltage
Lithium Battery

CPD60/70/80/90/100-EH



CREATING A BETTER FUTURE



Liuzhou Liugong Forklift Co., Ltd.
No. 1 Yanghe Avenue, Yanghe Industrial
New Zone, Liuzhou City, Guangxi
Zip Code (P): 545006
Sales Hotline (T): 0772-2040713
Service Hotline (T): 0772-2040720/ 0772-2040721 E-mail
(E): liugonglrs@liugong.com
Website (W): www.lgforklift.cn



Official website



Media Platform

LG-PB-CPD60/70/80/90/100-EH-05202410-EN

The Liugong series of logos herein, including but not limited to word marks, device marks, letter of alphabet marks and combination marks, as the registered trademarks of Guangxi Liugong Group Co., Ltd. are used by Guangxi Liugong Machinery Co., Ltd. with legal permission, and shall not be used without permission. Specifications and designs are subject to change without notice. Illustrations and pictures may include optional equipment and may not include all standard equipment. Equipment and options varies by regional availability.



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;
- Permanent magnet synchronous motor match with high speed ratio transmission,providing good drive performance,higher than IC forklift,more suitable for long-distance handling.



Fast charging, Long run time

- 6.0T-8.0T standard 70.4kWh battery ; 9.0T-10.0T standand 105 kWh battery.
- 6.0T-8.0T optional 105kWh battery,run time 6-9 hours, meet heavy duty and long distance handling;
- Super fast charging -1 hour full charging;
- Fit with electrical automobile charging pile, more convenient to charge.



Precise control ,comfort operation, Intelligent management

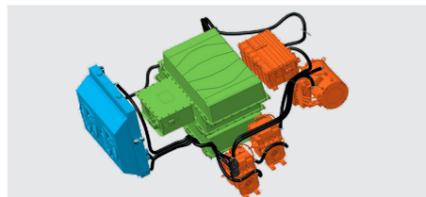
- Ergonomically simulation human factors designed driver's cab, enhanced driver comfort and safety;
- Electro-hydraulic transmission system optimization and fulfill, powerful acceleration, accurate control thanks to hydraulic micro-motion performance.



HIGH PERFORMANCE AND MAXIMUM SAFETY

Reliability and durable

- Using internal combustion mast, frame system, high strength, to meet the steel, port and other heavy duty application;
- The standard battery heating and cooling function and hydraulic oil radiator can work at the ambient temperature of -35 C 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 level dustproof and waterproof, meet the all-weather operation

- Closed design of covering parts, upgrades the closed instrument platform, and the truck reaches IPX4 waterproof level
- Three electric core components protection class IP68,meet the requirements of all-weather application



SAVE MONEY ,LOW TCO

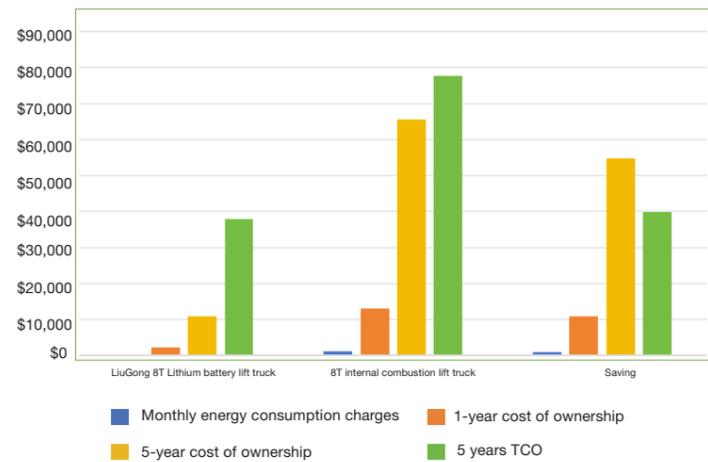
High efficiency, low operation cost

- Automotive-level 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 positon;

Simple maintenance and low maintenance cost

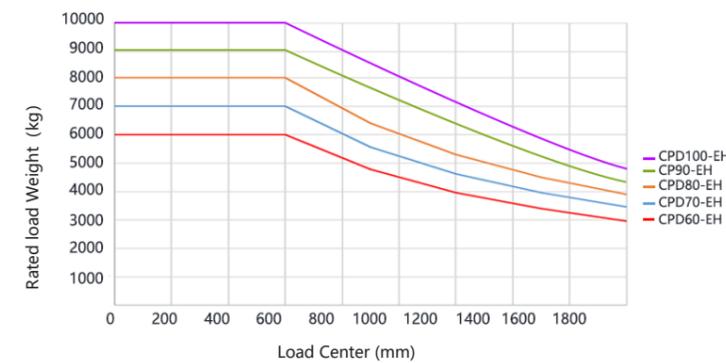
- Covering parts and lubrication points maintenance are simple and convenient,economy.

TCO Comparison



MAST AND CAPACITY INFORMATION

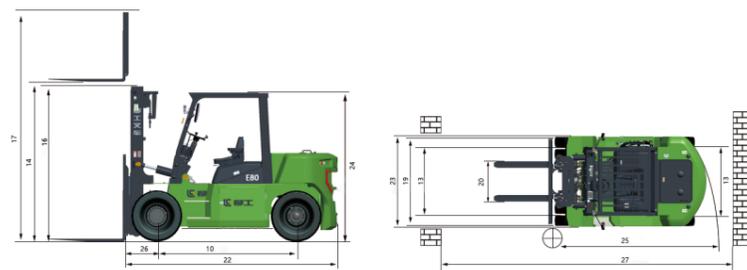
Mast type	Maximum Fork Height (mm)		Mast lowering height (mm)				Mast lifting height (mm)		Free Lift with Load Backrest (mm)			Mast Tilt Angle (°)		Rated Load Capacity										Total Weight with Standard Forks				
			With load bickrest		Without load backrest							With Standard Forks					With Sideshifter											
	6/7/8t	9/10t	6/7/8t	9/10t	6/7/8t	9/10t	6/7/8t	9/10t	6/7t	8t	9/10t	6/7/8t	9/10t	6t	7t	8t	9t	10t	6t	7t	8t	9t	10t	6t	7t	8t	9t	10t
Standard 2-Stage	2500	-	2275	-	3920	-	3662	-	195	200		6/12	-	6000	7000	8000	-	-	5700	6700	7700	-	-	9199	9799	10779	-	-
	3000	3000	2525	2870	4420	4517	4162	4365	195	200	210	6/12	6/12	6000	7000	8000	9000	10000	5700	6700	7700	8700	9700	9280	9880	10860	13400	14200
	3500	3500	2775	3120	4920	5017	4662	4865	195	200	210	6/12	6/12	6000	7000	8000	9000	10000	5700	6700	7700	8700	9700	9362	9962	10942	13490	14290
	4000	4000	3075	3420	5420	5517	5162	5415	195	200	210	6/12	6/12	6000	7000	8000	9000	10000	5700	6700	7700	8700	9700	9461	10061	11041	13590	14390
	4500	4500	3325	3670	5920	6017	5662	5915	195	200	210	6/12	6/12	6000	7000	8000	9000	10000	5700	6700	7700	8700	9700	9611	10211	11191	13680	14480
	5000	5000	3575	3920	6420	6517	6162	6415	195	200	210	6/6	6/6	6000	7000	8000	9000	10000	5700	6700	7700	8700	9700	9694	10294	11274	13820	14620
	5500	5500	3875	4220	6920	7017	6662	6965	195	200	210	6/6	6/6	5700	6600	7300	8600	9200	5400	6300	7000	8300	8900	9856	10456	11436	13980	14780
6000	6000	4125	4470	7420	7517	7162	7465	195	200	210	6/6	6/6	5400	6400	6500	7600	8200	5100	6100	6200	7300	7900	9939	10539	11519	14060	14860	
Full Free 2-Stage	2500	2500	2275	2600	3915	3987	3657	3820	1168	1173	1327	6/12	6/12	6000	7000	8000	9000	10000	5700	6700	7700	8700	9700	9137	9737	10717	13390	14190
	3000	3000	2525	2850	4415	4489	4157	4320	1418	1423	1577	6/12	6/12	6000	7000	8000	9000	10000	5700	6700	7700	8700	9700	9207	9807	10787	13490	14290
	4000	-	2565	-	5410	-	5225	-	1438	1443	-	6/12	-	5600	6200	7000	-	-	5300	5900	6700	-	-	9673	10273	11253	-	-
Full Free 3-Stage	4500	4500	2735	2872	5920	6013	5735	5866	1608	1613	1599	6/12	6/12	5600	6200	7000	8200	8700	5300	5900	6700	7900	8400	9757	10357	11337	14180	14980
	5000	5000	2902	3038	6424	6511	6236	6364	1775	1780	1765	6/6	6/6	5600	6200	7000	8200	8500	5300	5900	6700	7900	8200	9841	10441	11421	14280	15080
	5500	5500	3068	3204	6916	7009	6734	6862	1941	1946	1931	6/6	6/6	5400	6000	6600	7700	7900	5100	5700	6300	7400	7600	9994	10594	11574	14370	15170
	6000	6000	3234	3370	7418	7507	7232	7360	2107	2112	2097	6/6	6/6	5100	5600	6100	6900	7200	4800	5300	5800	6600	6900	10063	10663	11643	14470	15270
-	6500	-	3620	-	8005	-	2347	-	-	2347	-	6/6	-	-	-	-	6000	6400	-	-	-	5700	6100	-	-	-	14610	15410



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	CPD70	CPD80	CPD90	CPD100	
	Configuration Number	2		ECH	ECH	ECH	EYH	EYH	
Weights	Base Capacity	3	Rated load center	kg	6000	7000	8000	9000	10000
	Load Center	4		mm	600	600	600	600	600
Tires	Service Weight	5	Unloaded	kg	9280	9880	10860	13400	14200
	Axle Load	6	Full load,front/rear	kg	13634/1721	15119/1836	16582/2353	20051/2349	21308/2892
Mast		7	Unloaded,front/rear	kg	4486/4794	4459/5421	4392/6468	6489/6911	6239/7961
	Tire Type	8	Front /rear		Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
	Wheels	9	Front /rear		4/2	4/2	4/2	4/2	4/2
	Wheelbase	10		mm	2300	2300	2300	2500	2500
	Tire Size	11	Front		8.25-15-14PR	8.25-15-14PR	8.25-15-16PR	9.00-20-14PR	9.00-20-14PR
		12	Rear		8.25-15-14PR	8.25-15-14PR	8.25-15-16PR	9.00-20-14PR	9.00-20-14PR
	Tread Width	13	Front /rear	mm	1474/1730	1474/1730	1474/1730	1600/1720	1600/1720
Chassis	Max. Fork Height	14	Std 2-Stage mast	mm	3000	3000	3000	3000	3000
	Free lift	15	Std 2-Stage mast	mm	195	195	200	200	200
	Height, mast lowered	16	Std 2-Stage mast	mm	2525	2525	2525	2850	2850
	Height, mast extended	17	Std 2-Stage mast	mm	4162	4162	4162	4343	4343
	Mast tilt, fwd/back	18	Std 2-Stage mast	°	6/12	6/12	6/12	6/12	6/12
	Fork carriage	19		mm	1845	1845	1845	2080	2080
	Fork spread	20	Min/Max	mm	300/1840	300/1840	300/1840	420/2000	420/2000
Performance	Fork dimensions	21	T x W x L	mm	65×150×1220	65×150×1220	70×150×1220	80×175×1220	80×175×1220
	Overall Length (to the front end of the fork)	22	Std 2-Stage mast	mm	3500	3500	3561	3963	4035
	Overall width	23		mm	2020	2020	2020	2170	2170
	Overhead Guard Height	24		mm	2428	2428	2428	2565	2565
	Turning Radius	25		mm	3300	3300	3350	3650	3710
	Fork Overhang	26	Std 2-Stage mast	mm	578	578	583	718	718
	Right Angle Stack	27		mm	5298	5298	5353	5746	5806
Systems	Ground Clearance	28	Load below mast	mm	200	200	200	246	246
		29	Center of wheelbase	mm	215	215	215	340	340
	Battery size	30	L×W×H	mm	1260×710×600	1260×710×600	1260×710×600	1260×710×860	1260×710×860
	Travel speed	31	Full load/unloaded	km/h	25/26	25/26	25/26	28/30	28/30
	Lift speed	32	Full load/unloaded	mm/s	510/530	510/530	510/530	380/410	380/410
	Lower speed	33	Full load/unloaded	mm/s	450/400	450/400	450/400	400/320	400/320
	Max. traction force	34	Full load/unloaded	%	30/25	28/25	27/25	26/25	24/25
Brake System	35	Service		Foot/Hyd	Foot/Hyd	Foot/Hyd	Foot/Hyd	Foot/Hyd	
	36	Parking		Hand / Mech	Hand / Mech	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	54.5	55	
	39	Work pump motor power	kW	28+28	28+28	28+28	35+35	35+35	
Battery	40	Types		Lithium battery	Lithium battery	Lithium battery	Lithium battery	Lithium battery	
	41	Voltage	V	308	308	308	309\348	309\348	
	42	Capacity (5h)	Ah	228	228	228	302\302	302\302	
	43	Battery capacity	kwh	70.4	70.4	70.4	93.3\105	93.3\105	
	44	Weight	kg	650	650	650	850\920	850\920	



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 - 348 V/105 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 1220mm 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 348 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	● Ation 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 shift
● Blue spot light(pear and frou)	● Other specifications attachment