



E SERIES HIGH VOLTAGE LITHIUM BATTERY CPD90/100



CREATING A BETTER FUTURE



LG-PB-CPD90/100-202412-EN

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Media Platform

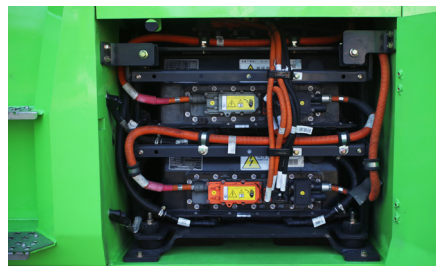


TOUGH WORLD.TOUGH EQUIPMENT.

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

- Standard 93.6kWh battery 105 kWh 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

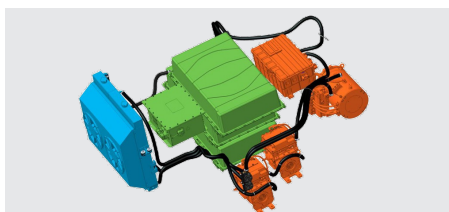
- Ergonomically simulation human factors designed driver's cab, enhanced driver comfort and safety;
- Elector-hydraulic transmission system optimization and fulfil, powerful acceleration, accurate control thanks to hydraulic micro-motion performance.



HIGH PERFORMANCE AND MAXIMUM SAFETY

Reliability and durable

- Using internal combustion mast, frame system, high strength, to meet the steel, port and other heavy 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



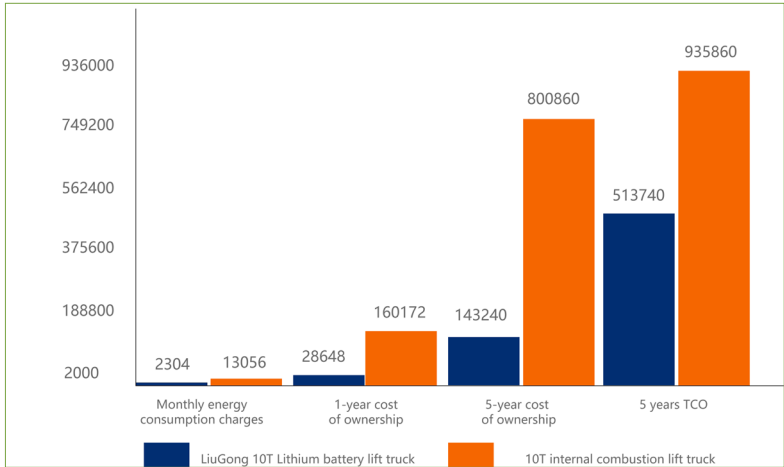


CPD90/100

SAVE MONEY ,LOW TCO

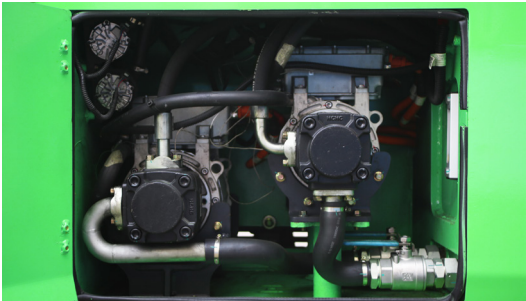
High efficiency, low operation cost

- 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

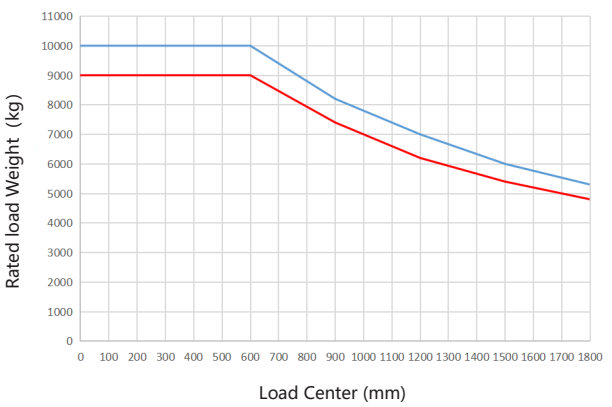
- Covering parts and lubrication points maintenance are simple and convenient,economy.



TOUGH WORLD.TOUGH EQUIPMENT.

MAST AND CAPACITY INFORMATION

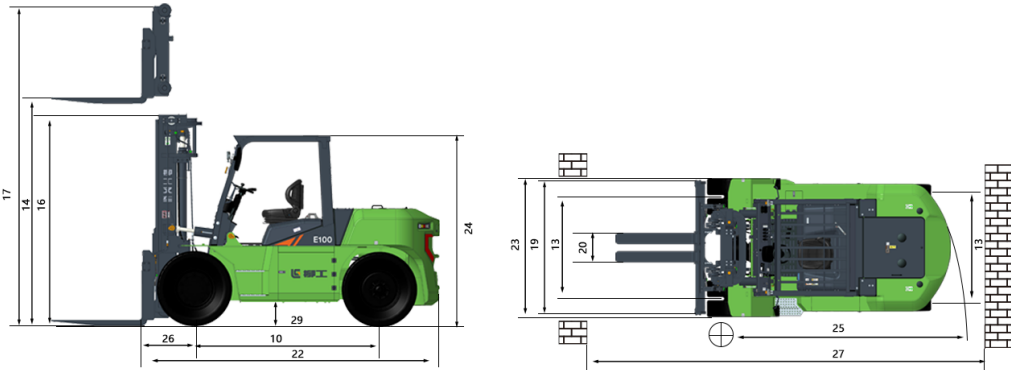
Mast type	Maximum Fork Height (mm)	Mast lifting height (mm)		Mast lowered height (mm)	Mast Tilt Angle (°)	Rated Load Capacity				Free Lift with Load Backrest (mm)	Total Weight with Standard Forks (kg)	
		With Standard Forks				With Sideshifter		CPD90/CPD100	CPD90		CPD100	
		With load bickrest	Without load backrest			CPD90	CPD100			CPD90		CPD100
Standard 2-Stage	3000	4517	4365	2870	6/12	9000	10000	8700	9700	210	13400	14200
	3500	5017	4865	3120	6/12	9000	10000	8700	9700	210	13490	14290
	4000	5517	5415	3420	6/12	9000	10000	8700	9700	210	13590	14390
	4500	6017	5915	3670	6/12	9000	10000	8700	9700	210	13680	14480
	5000	6517	6415	3920	6/6	9000	10000	8700	9700	210	13820	14620
	5500	7017	6965	4220	6/6	8600	9200	8300	8900	210	13980	14780
	6000	7517	7465	4470	6/6	7600	8200	7300	7900	210	14060	14860
Full Free 2-Stage	2500	3987	3820	2600	6/12	9000	10000	8700	9700	1327	13390	14190
	3000	4489	4320	2850	6/12	9000	10000	8700	9700	1577	13490	14290
Full Free 3-Stage	4500	6013	5866	2872	6/12	8200	8700	7900	8400	1599	14180	14980
	5000	6511	6364	3038	6/6	8200	8500	7900	8200	1765	14280	15080
	5500	7009	6862	3204	6/6	7700	7900	7400	7600	1931	14370	15170
	6000	7507	7360	3370	6/6	6900	7200	6600	6900	2097	14470	15270
	6500	8005	7942	3620	6/6	6000	6400	5700	6100	2347	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			CPD90	CPD100
	Configuration Number	2			EYH	EYH
	Base Capacity	3	Rated load center	kg	9000	10000
	Load Center	4		mm	600	600
Weights	Service Weight	5	Unloaded	kg	13400	14200
	Axle Load	6	Full load,front/rear	kg	20051/2349	21308/2892
		7	Unloaded,front/rear	kg	6489/6911	6239/7961
Tires	Tire Type	8	Front /rear		Pneumatic	Pneumatic
	Wheels	9	Front /rear		4/2	4/2
	Wheelbase	10		mm	2500	2500
	Tire Size	11	Front		9.00-20-14PR	9.00-20-14PR
		12	Rear		9.00-20-14PR	9.00-20-14PR
	Tread Width	13	Front /rear	mm	1600/1720	1600/1720
Mast	Max. Fork Height	14	Std 2-Stage mast	mm	3000	3000
	Free lift	15	Std 2-Stage mast	mm	200	200
	Height, mast lowered	16	Std 2-Stage mast	mm	2850	2850
	Height, mast extended	17	Std 2-Stage mast	mm	4343	4343
	Mast tilt, fwd/back	18	Std 2-Stage mast	deg	6/12	6/12
	Fork carriage	19		mm	2080	2080
	Fork spread	20	Min/Max	mm	420/2000	420/2000
	Fork dimensions	21	T x W x L	mm	80×175×1220	80×175×1220
	Overall Length (to thefront end of the fork)	22	Std 2-Stage mast	mm	3963	4035
	Overall width	23		mm	2170	2170
Chassis	Overhead Guard Height	24		mm	2565	2565
	Turning Radius	25		mm	3650	3710
	Fork Overhang	26	Std 2-Stage mast	mm	718	718
	Right Angle Stack	27		mm	5746	5806
	Ground Clear	28	Load below mast	mm	246	246
		29	Center of wheelbase	mm	340	340
	Battery size	30	L×W×H	mm	1260×710×860	1260×710×860
	Travel speed	31	Full load/unloaded	km/h	28/30	28/30
	Lift speed	32	Full load/unloaded	mm/s	380/410	380/410
	Lower speed	33	Full load/unloaded	mm/s	400/320	400/320
Performance	Maximum Gradeability	34	5-minute working system (Full load/unloaded)	%	26/25	24/25
	Brake System	35	Service/Parking		Permanent magnet synchronization	
Systems	Motor	36	Drive motor power	kW	54.5	54.5
		37	Work pump motor power	kW	35+35	35+35
	Battery	38	Types		Lithium battery	
		39	Voltage	V	309\348	309\348
		40	Capacity (5h)	Ah	302\302	302\302
		41	Battery capacity	kwh	93.3\105	93.3\105
		42	Weight	kg	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 309 V/93.3 kwh	● Overhead guard
● Battery heating	● Four 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
● Power supply DC-DC	● Standard 1220mm long forks
● Multifunctional LCD display	● Metal hood
● LED front and rear combined lights	● Metal side panels
● OPS system	● False touch prevention hood gas spring
● Lowering cylinder with buffer function	● Anti-mistouch mechanism handbrake
● manual service disconnect (MDS) service switch	● Low noise gear pump
● Emergency switch	● Rear grab handle with horn button
● Curve deceleration	● Left and right dual rear mirror

OPTIONAL CONFIGURATION	
● Lithium battery 347.7 V/105 kwh	● AC with heater and cooling function
● Lithium battery charger port (GB,3phase 380V,60kw/150Ah)	● Heater
● Three Function valve	● Reversing video system
● Two 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 shift
● Blue spot light(front and rear)	● Other specifications attachment