



# E Series High Voltage Lithium Battery CPD60/70/80-EH



**CREATING A BETTER FUTURE**



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

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

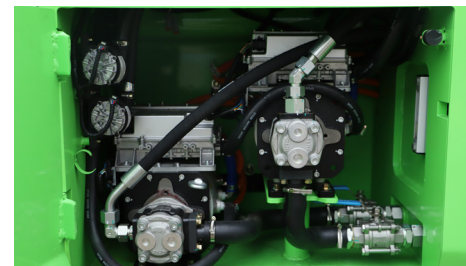


TOUGH WORLD.TOUGH EQUIPMENT.

# 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

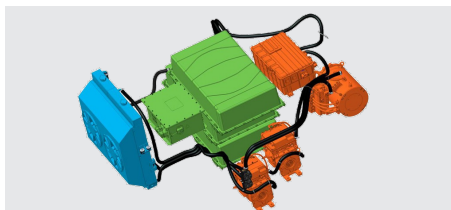
- Ergonomically simulation human factors designed driver's cab, enhanced driver confort and safety;
- Elector-hydraulic transmission system optimization and fulfil, powerful acceleration, accurate control thanks to hydraulic micro-motion performance.



# 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;.



CPD60/70/80-EH

TOUGH WORLD.TOUGH EQUIPMENT.

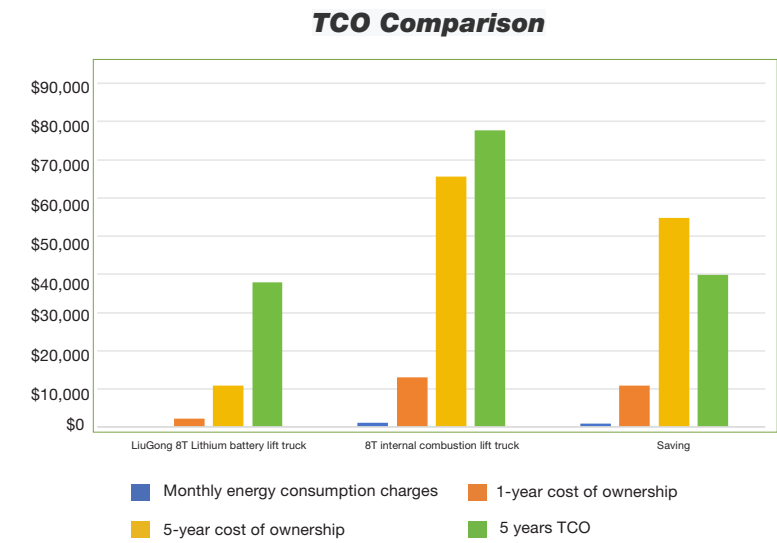
MAST AND CAPACITY INFORMATION

| 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 bickrest       | Without load backrest |                                   |      |                     | With Standard Forks |      |      | With Sideshifter |      |      |                                  |       |       |
|                   | 6/7/8t                   |                          |                          |                       |                                   | 6/7t | 8t                  | 6/7/8t              | 6t   | 7t   | 8t               | 6t   | 7t   | 8t                               | 6t    | 7t    |
| 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 |

SAVE MONEY ,LOW TCO

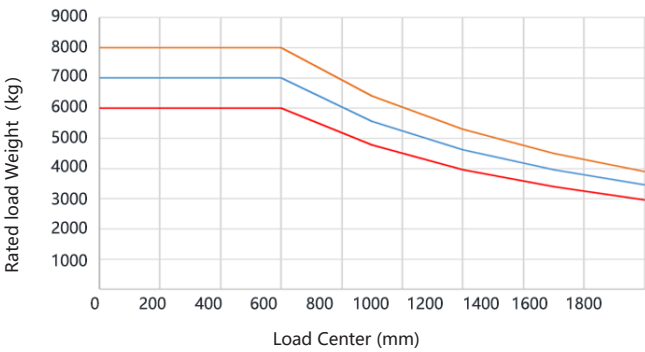
High efficiency, low using cost

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

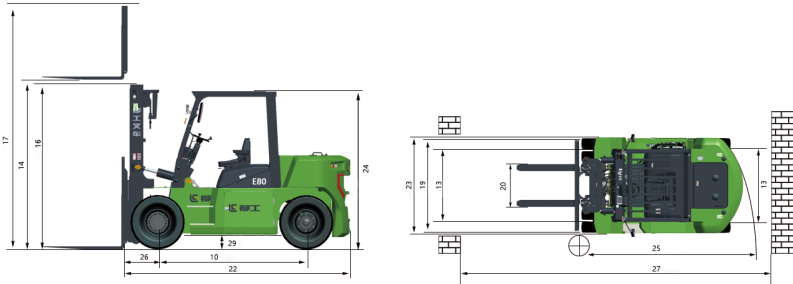
Covering parts and lubrication points maintenance are simple and convenient,economy.



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        |
|             | 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            |
|             | 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     |
| Chassis     | Overall Length<br>(to thefront end of the fork) | 22 | Std 2-Stage mast               | mm   | 3500                             | 3500            | 3561            |
|             | Overall width                                   | 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    |
|             | Travel speed                                    | 31 | Full load/unloaded             | km/h | 25/26                            | 25/26           | 25/26           |
| Performance | 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     |