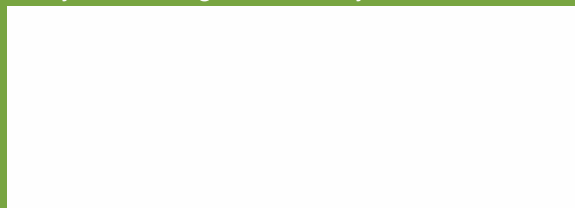




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**Series High Voltage  
Lithium Battery**

**CPD60/70/80-EH**



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## CPD60/70/80-EH

# SAVE TIME, ADVANCED AND EFFICIENT

### Excellent Performance compared with IC forklift

- LiuGong's patented VCU enhances handling and productivity;
- CATL Lithium batteries with 4000 cycles life, storage capacity loss rate of less than 20% after 6 year;
- High-speed permanent synchronous motors (PMSM) paired with high-speed gearboxes, deliver superior travel performance, higher than IC forklifts, more suitable for long-distance handling.



## CPD60/70/80-EH

### Fast charging, Long run time

- Standard 70.4 kWh battery
- Optional 105 kWh battery, ideal for heavy-duty and long-distance tasks
- Super-fast charging in just 1 hour
- Compatible with electric vehicle charging stations for convenient charging



### Precise control ,comfort driving, Intelligent management

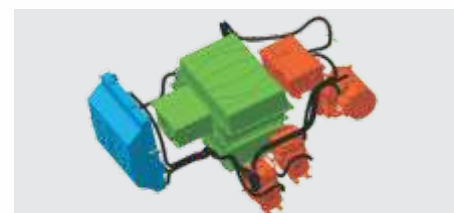
- Ergonomically optimized driver's cab, designed with human factors in mind, to minimize operator fatigue and maximize comfort and safety
- Advanced electro-hydraulic transmission system, optimized for precise control and powerful acceleration, leveraging the benefits of hydraulic micro-motion technology



# HIGH PERFORMANCE AND MAXIMUM SAFETY

### Reliable and durable

- High-strength internal combustion mast and frame system, designed to withstand the rigors of heavy-duty applications in steel, port, and other demanding industries
- Advanced thermal management system, including battery heating/cooling and hydraulic oil radiator, ensuring reliable operation in a wide range of ambient temperatures, from -35°C to 45°C



### Safe and worry-free

- Comprehensive safety features, including Operator Presence Sensing (OPS), curve deceleration, steep descent protection, cylinder buffer, and general power on/off functions
- Manual Service Disconnect (MSD) switch, enabling safe maintenance procedures by isolating power to the forklift



### High-grade dust and water protection for all-weather operation

- Automotive-grade permanent magnet synchronous motor system with energy regeneration;
- Optimized motor, electric control, and battery depth for 15-20% lower energy consumption to achieve long term operation';
- Industry-leading energy efficiency and reduced emissions, enabling long-term, sustainable operation and lower operating costs



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LOWER OPERATING COST, LOW TCO

Low Operating Cost

- **Energy Efficiency** : Lithium-ion batteries have a higher energy density, which means they can store more energy and run longer on a single charge
- **Reduced Charging Time** : These batteries can be charged much faster than traditional lead-acid batteries
- **Opportunity Charging** : Lithium-ion batteries support opportunity charging, allowing for quick top-ups during breaks without affecting battery life
- **Minimal Maintenance** : Unlike lead-acid batteries, lithium-ion batteries do not require regular watering or equalization, reducing maintenance costs

Low Total Cost of Ownership (TCO)

- **Longer Lifespan** : Lithium-ion batteries can last up to 3-4 times longer life than lead-acid batteries, reducing the frequency and cost of replacements
- **Reduced Labor Cost** : The minimal maintenance and faster charging times reduce the labor cost required for battery management
- **Sustainability** : Lithium-ion batteries are more environmentally friendly, contributing to sustainability goals and potentially qualifying for incentives

Simple maintenance and low operating cost

Easy access to parts and lubrication points for simplified and efficient maintenance

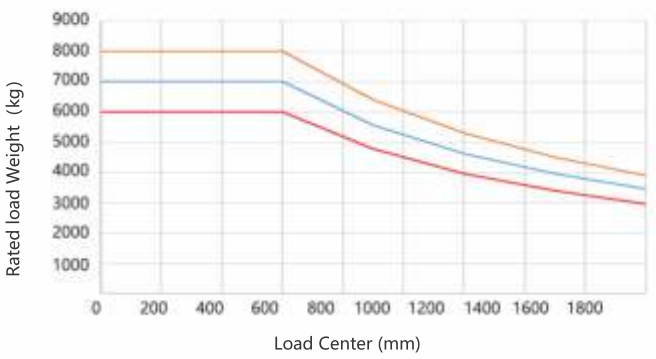
Fully opening covers, convenient for the maintenance of motors & controllers



CPD60/70/80-EH

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 |                                   |                     | With Standard Forks | With Sideshifter |                                  |
|                   |                          |                          | 8t                       | 8t                    |                                   |                     | 8t                  | 8t               |                                  |
| Standard 2-Stage  | 2500                     | 2275                     | 3920                     | 3662                  | 200                               | 6/12                | 8000                | 7700             | 10779                            |
|                   | 3000                     | 2525                     | 4420                     | 4162                  | 200                               | 6/12                | 8000                | 7700             | 10860                            |
|                   | 3500                     | 2775                     | 4920                     | 4662                  | 200                               | 6/12                | 8000                | 7700             | 10942                            |
|                   | 4000                     | 3075                     | 5420                     | 5162                  | 200                               | 6/12                | 8000                | 7700             | 11041                            |
|                   | 4500                     | 3325                     | 5920                     | 5662                  | 200                               | 6/12                | 8000                | 7700             | 11191                            |
|                   | 5000                     | 3575                     | 6420                     | 6162                  | 200                               | 6/6                 | 8000                | 7700             | 11274                            |
|                   | 5500                     | 3875                     | 6920                     | 6662                  | 200                               | 6/6                 | 7300                | 7000             | 11436                            |
|                   | 6000                     | 4125                     | 7420                     | 7162                  | 200                               | 6/6                 | 6500                | 6200             | 11519                            |
| Full Free 2-Stage | 2500                     | 2275                     | 3915                     | 3657                  | 1173                              | 6/12                | 8000                | 7700             | 10717                            |
|                   | 3000                     | 2525                     | 4415                     | 4157                  | 1423                              | 6/12                | 8000                | 7700             | 10787                            |
| Full Free 3-Stage | 4000                     | 2565                     | 5410                     | 5225                  | 1443                              | 6/12                | 7000                | 6700             | 11253                            |
|                   | 4500                     | 2735                     | 5920                     | 5735                  | 1613                              | 6/12                | 7000                | 6700             | 11337                            |
|                   | 5000                     | 2902                     | 6424                     | 6236                  | 1780                              | 6/6                 | 7000                | 6700             | 11421                            |
|                   | 5500                     | 3068                     | 6916                     | 6734                  | 1946                              | 6/6                 | 6600                | 6300             | 11574                            |
|                   | 6000                     | 3234                     | 7418                     | 7232                  | 2112                              | 6/6                 | 6100                | 5800             | 11643                            |



Note:  
Vertical axis stands for load capacity while horizontal axis 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.

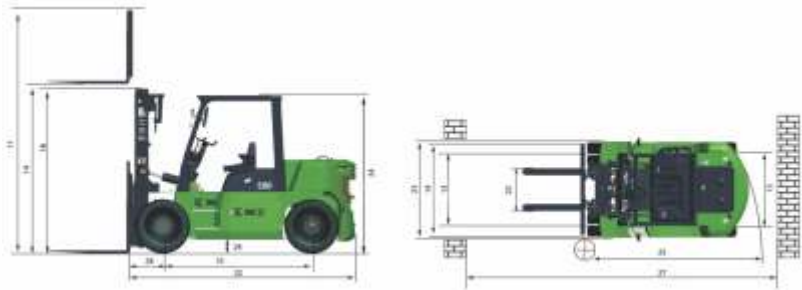
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PRODUCT SPECIFICATIONS

|             |                                              |    |                                |      |                                  |                 |                 |
|-------------|----------------------------------------------|----|--------------------------------|------|----------------------------------|-----------------|-----------------|
| General     | Model                                        | 1  |                                |      | CPD60-EH                         | CPD70-EH        | CPD80-EH        |
|             | Power Source                                 | 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    |
| Mast        | Tread Width                                  | 13 | Front /rear                    | mm   | 1474/1730                        | 1474/1730       | 1474/1730       |
|             | 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     |
|             | Overall Length (to thefront end of the fork) | 22 | Std 2-Stage mast               | mm   | 3500                             | 3500            | 3561            |
| Chassis     | 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             |



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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     |

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