

# CPD60/70/85/100

## GB2D/GB2DLI



**HELI**



Li-ION

**6-10 t**

G3 Series Electric Battery  
Forklift Truck



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# Compatible in system, Special in style

----- It is rather to achieve mutual achievement  
than give an ostentatious display of ability.



## Compatible

Lithium battery and lead acid battery are optional as you like.

## Integrated

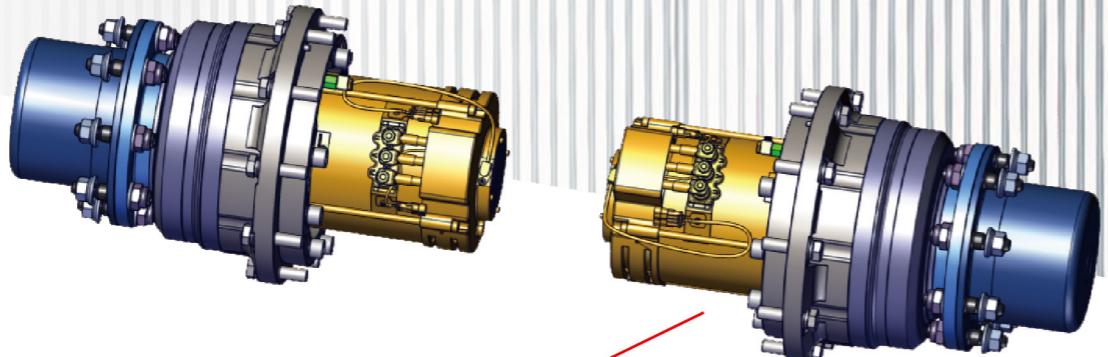
Combine the humanization design advantages of both internal combustion forklift truck and electric truck.



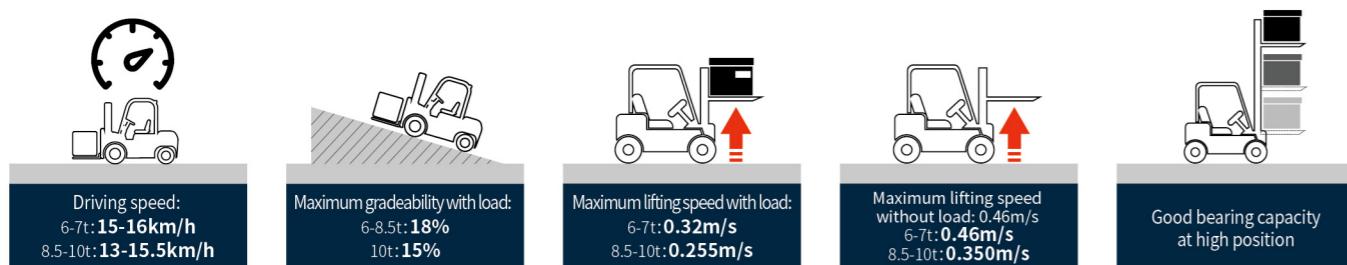
The truck is a continuation of HELI family style and creates a new concept of electric forklift through easy exchange between lead acid battery power and lithium battery power

## Efficient and Energy saving

- Powerful dual drive, superior gradeability.



Dual drive power, imported motor and imported wheel reducer, while providing strong power, further improve the safety and stability of the truck.



- Double gun charging, fast and efficient.

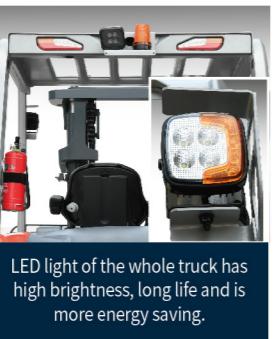


Lithium battery forklift truck is equipped with double gun charging as standard, which greatly reduces the charging time. Lithium batteries have high-density capability and can be used and charged at any time to realize efficient and continuous operation all day long.

### Lithium battery options:

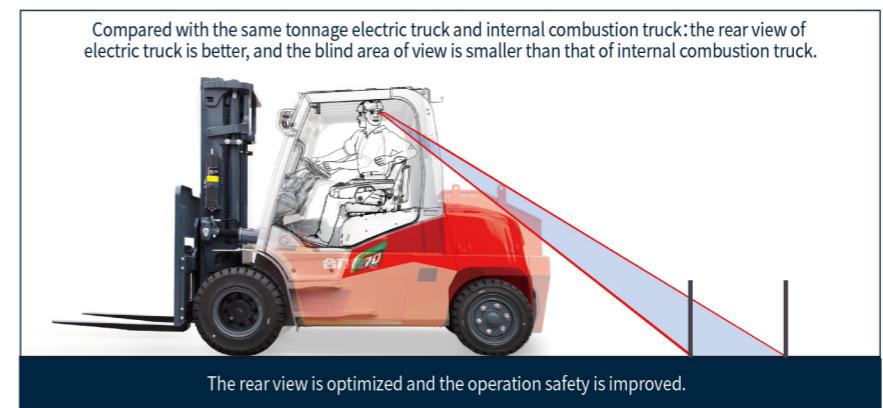
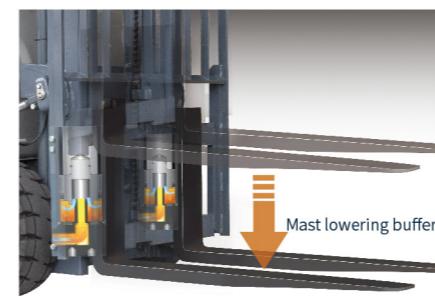
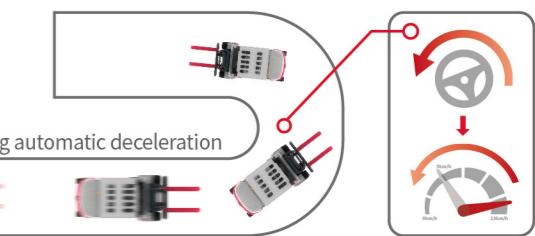
- 606Ah capacity (standard configuration):** which can be charged for 8 hours at one time, suitable for light load condition;
- 813Ah capacity:** one charge can meet 8-9 hours of operation, suitable for standard working conditions;
- 1084 Ah capacity:** one charge, suitable for 9-10 hours operation, suitable for heavy load strengthening conditions.
- 808Ah capacity (8.5-10t Lithium battery options):** one charge can meet 8-9 hours of operation, suitable for standard working conditions;

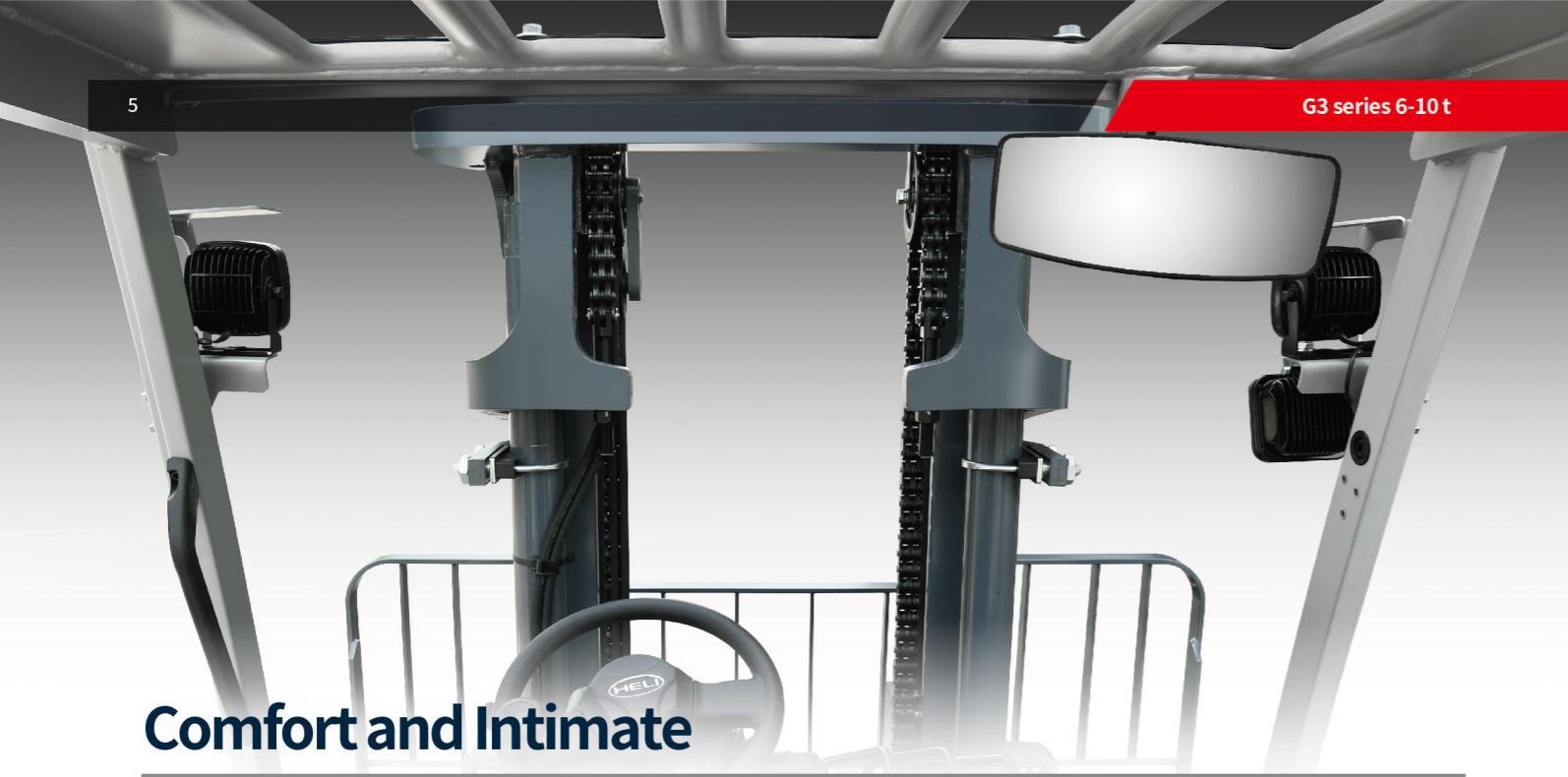
- Multi configuration, low energy consumption.



## Intelligent and Safe

- Intelligent automatic parking:** optimized negative braking system and active parking in multiple applications are safe and easy which is safe and easy to make up omissions;
- Intelligent turning speed limit:** active speed limit function, balance efficiency and safety when turning at high speed;
- Intelligent limit buffer:** intelligent induction of mast lifting and lowering avoids limit impact and is safe and comfortable;
- Intelligent operation protection:** a full set of OPS system can avoid misoperation and ensure safety;
- Intelligent control strategy:** dual core controller is in line with the latest EU safety requirements.





## Comfort and Intimate

- The mast with large opening offers good driving vision ensuring operation comfort and safety.
- It integrates the advantages of internal combustion forklift truck platform to make the driving space more comfortable.
- Standard imported silent gear pump, greatly reduce the ear noise.



Optional configuration of intelligent safety buffer system cushion operator from effects of riding over uneven surface and it is more comfortable.

### Vibration shock reduction

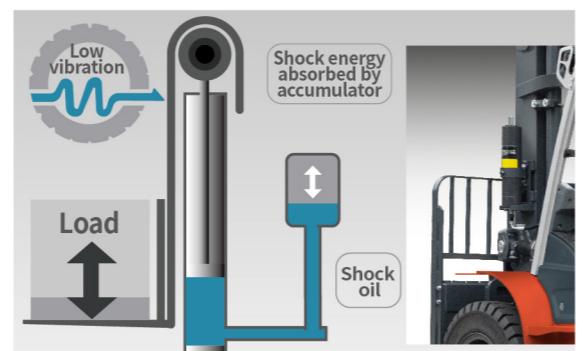
When driving under load conditions, the impact caused by uneven surface is greatly absorbed, and the vibration is effectively reduced.

### Vibration and noise reduction

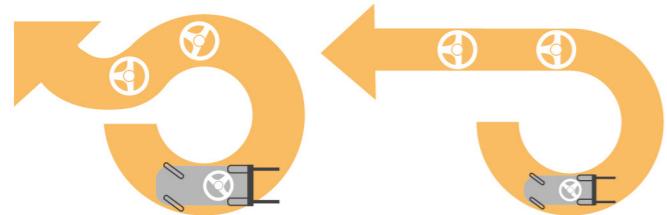
When driving under load condition, the impact noise caused by uneven surface is greatly reduced.

### Reduced driving fatigue

During the emergency stop operation during the load lowering process, the vibration and driving fatigue caused by inertia impact can be effectively reduced, and the driving safety can be improved.

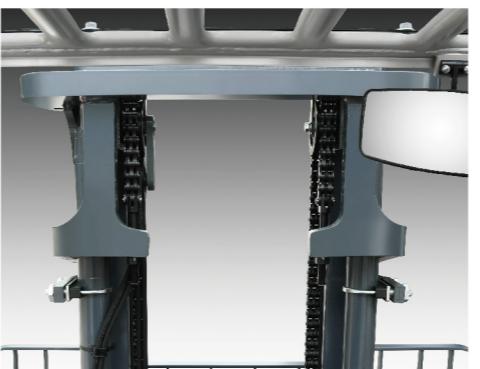


- Hydraulic synchronous steering system can adjust steering wheel and wheel angle offset smartly and offers accurate steering and comfortable driving. (optional)
- Color screen display which can switch between Chinese and English, display truck speed, working time, battery power, fault code and other information.



## Stable and Reliable

- Imported drive axle and motor are stable and reliable.
- Wet negative braking is safe and reliable.
- The innovative design of mast structure improves the overall strength and stiffness.
- The structural design of the welded large oil tank greatly improves the strength of the frame and the heat dissipation of the hydraulic oil.
- The whole truck can be operated alternately in -20°C cold storage for 6 hours and parked in the cold storage for 12 hours without failure and can continue to work.
- New design of steering axle is safe and reliable.



## Convenient and Maintenance

- The layout of the cab is optimized, the battery is located directly under the engine room, and the hood opening angle is large, which facilitate daily inspection and maintenance.
- The controller is located on the counterweight, giving consideration to heat dissipation and maintenance convenience.
- The battery side changing is installed for easy changing between lead-acid battery and lithium battery as you like meet the needs of different customers and occasions.

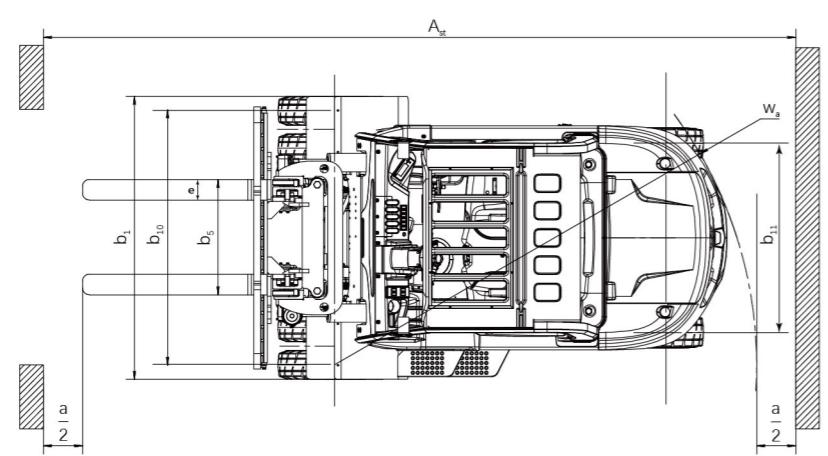
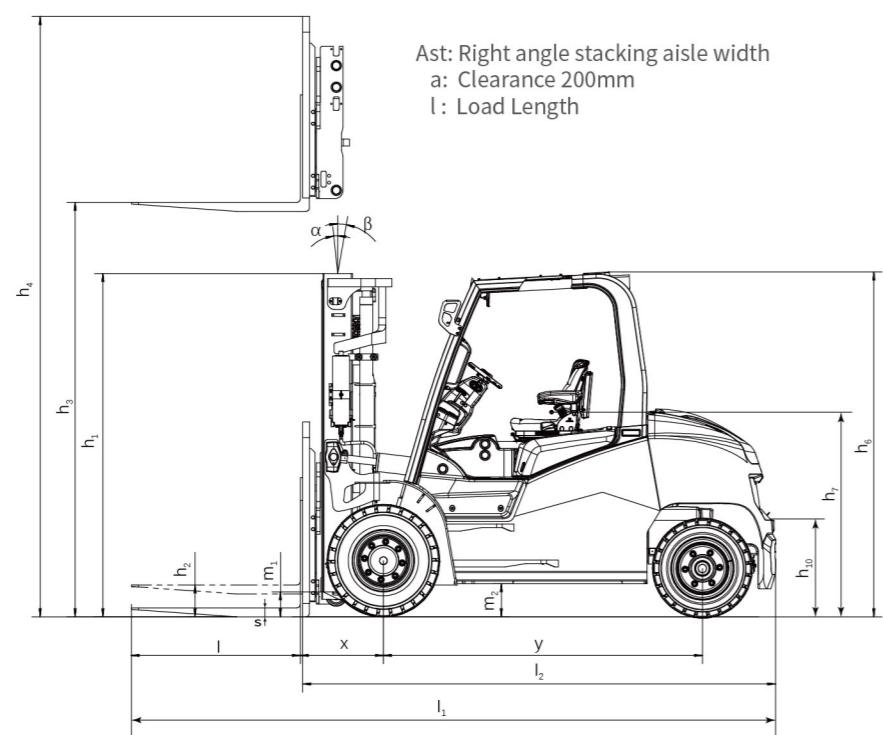


### HELI smart fleet management system(domestic basic edition)

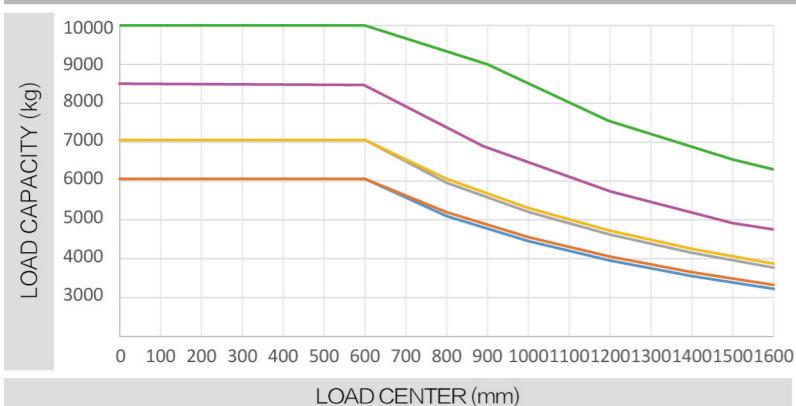
Vehicle positioning	Statistical form
Remote diagnosis	Vehicle management
Remote monitoring	Identification recognition (optional)
Maintenance reminder	Weight management (optional)
Battery management	Collision management (optional)







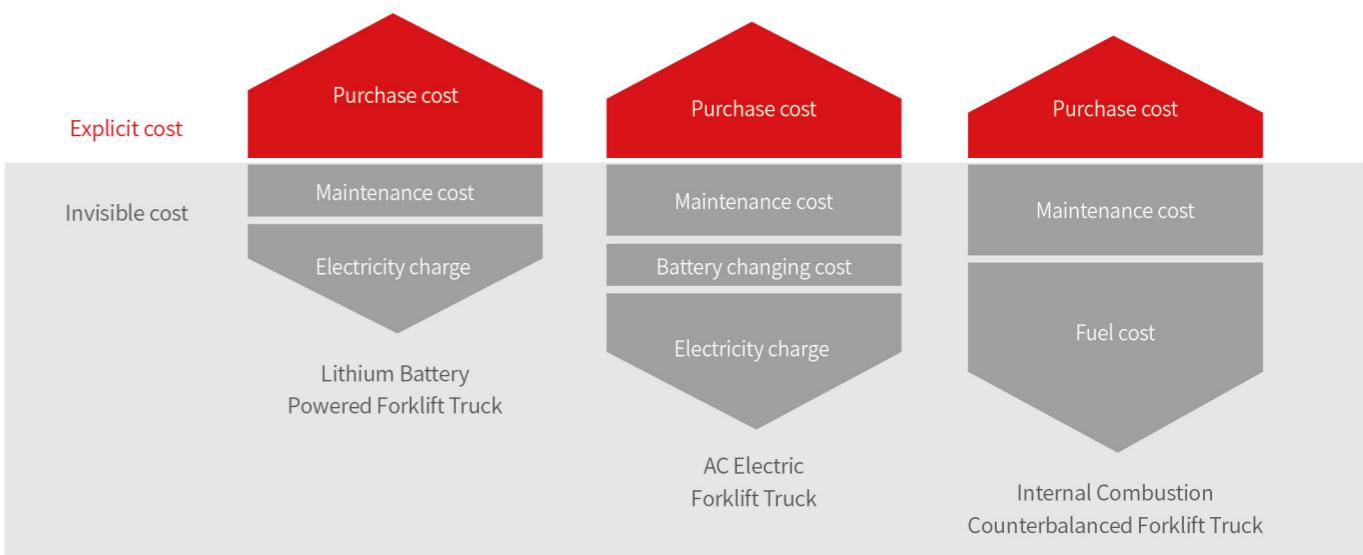
#### Load curve



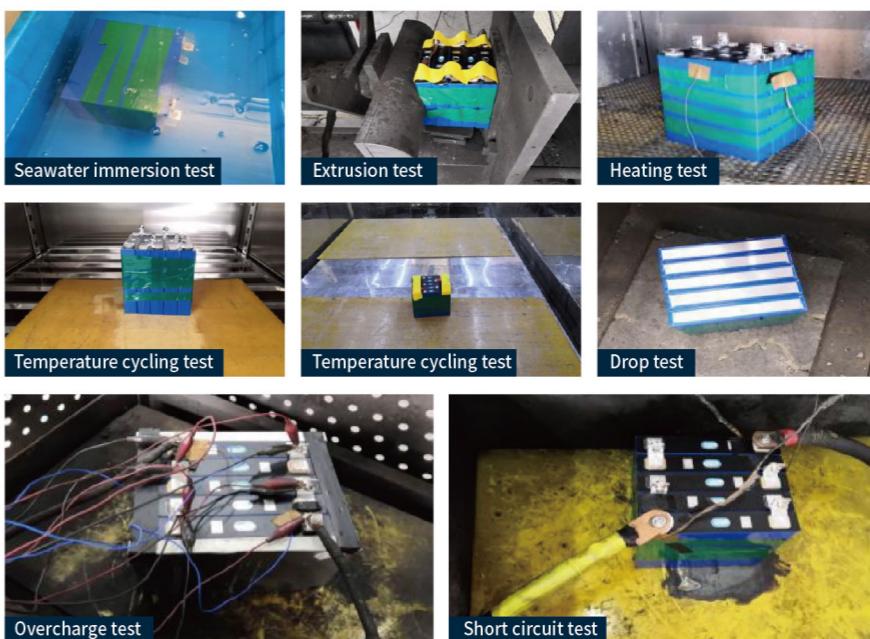
**Note:** The vertical axis stands for load capacity and the horizontal axis stands for load center which is calculated from the front surface of the forks to the gravity of the standard load. The standard load means a cubic with 1000mm edge length. When mast is tilted forward, using non-standard forks or loading large goods, the load capacity will be reduced. The load capacity of standard mast at different load center can be known from this load chart.

## Operating Cost Comparison: Lithium battery forklift vs. Lead-acid battery forklift vs. IC forklift

The advantages of HELI lithium battery forklift trucks are more prominent in the life cycle cost. Compared with internal combustion forklift truck, lithium battery forklift truck has the advantages of no noise, no pollution, small vibration and simple operation. Compared with the lead-acid battery forklift truck, lithium battery forklift has the characteristics of fast charging and charging at any time, which is more suitable for multi shift operation. Besides, HELI lithium battery forklift is maintenance free, high power conversion efficiency, and economical overall operation cost.



#### Lithium Battery Advantages



- ✓ The truck selects mature and economical square iron phosphate lithium battery core and module used by large numbers of commercial vehicles;
- ✓ The module adopts aluminum alloy plate frame, which is firm, light in weight and has good heat dissipation effect;
- ✓ Fast charging: fast charging makes truck gapless operation possible, and it can be fully charged in up to one hour;
- ✓ High efficiency and safety: The charging and discharging efficiency is up to 98%, and temperature of thermal runaway is over 600 °C;
- ✓ Low temperature adaptability: Standard configuration of heating function ensures normal operation of low temperature environment;
- ✓ Long service life: Over 75% capacity reserved after 5 years or ten thousand hours;
- ✓ Maintenance free: the battery does not need manual maintenance and does not need to add distilled water electrolyte;
- ✓ Green and clean: no pollution and zero emission.



**Configuration Table**

<b>Categories for Safety</b>	Steering deceleration	●
	Rear handle with horn for truck reversing	●
	Overspeed alarm (5km/h)	○
	Overspeed alarm(8km/h)	○
	Overspeed alarm (10km/h)	○
	OPS(travelling+lifting+tilting+attachment )(lowering is included)	●
	Control valve overload	●
	Dry powder extinguisher (0.5kg)	○
	Dry powder extinguisher (2kg)	○
	Backward buzzer	●
	Reversing speaker (Chinese)	○
	Electronic upper buffering	●
	Center wide angle rearview mirror	●
	Rearview mirror on two sides + Center wide angle rearview mirror	○
	Reverse radar (4 probes)	○
	Reversing image (1 camera + 4 probes)	○
	GRAMMER full suspension seat	●
	1 USB interface (5V/1A)	●
<b>Categories for comfort</b>	Super low torque steering unit	●
	Steering started by steering wheel	●
	Mechanical operation valve	●
	Electromagnetic operation valve (proportional valve+ thumb switch)	○
	Fan	○
	Overhead guard with iron frame	○
	Overhead guard with protection net	○
	Panel mounted cab( with fan and wiper)	○
<b>cab / windshields</b>	Heater	○
	Rear mounted air conditioner only for cooling	○
	Rear mounted air conditioner only for cooling + heater	○
	Front windshield (with wiper)	○
	High temperature resistant front windshield	○
	Rear windshield	○
	Top windshield (without fan)	○
	LED rear working lamp (one)	●
<b>lights</b>	Rear LED red/blue spot lamp	○
	Left, right and rear blue bar	○
	Fixed type LED rotating warning lamp	●
	Fixed type LED flicker warning lamp	○
	Fixed type LED rotating buzzer warning lamp	○
	Dual tyre (front wheel)	●
<b>others</b>	Metric screw	●
	SAE screw	○
	No protective sleeves for tilting cylinder and steering cylinder	○
	With protective sleeves for tilting cylinder and steering cylinder	●
	FICS(basic edition) (for domestic)	●

NOTE: "●" standard ; "○" optional ; "—" not applicable; \*:only ZAPI electric controller.

**Battery capacity configuration**

<b>Truck model</b>	<b>Model</b>	<b>Standard battery Made in CHINA</b>	<b>Option battery</b>					
			<b>Made in CHINA</b>		<b>FAAM</b>		<b>HOPPECKE</b>	
<b>Acid type</b>	CPD60-GB2D	80V/840Ah*	80V/960Ah*	80V/840Ah*	80V/840Ah*	80V/960Ah*	80V/1000Ah*	—
	CPD70-GB2D	80V/960Ah*	—	80V/1000Ah*	—	80V/1000Ah*	—	—
	CPD85-GB2D							
	CPD100-GB2D							
<b>Lithium type</b>	—	<b>HEDING</b>	<b>HEDING</b>		<b>ENEROC, CATL core</b>			
	CPD60-GB2DLI	80V/606Ah*	80V/808Ah*	80V/1120Ah*	80V/1212Ah*	80V/604Ah*	80V/606Ah	80V/684Ah*
	CPD70-GB2DLI					—	—	—
	CPD85-GB2DLI	80V/808Ah*	—					
	CPD100-GB2DLI							