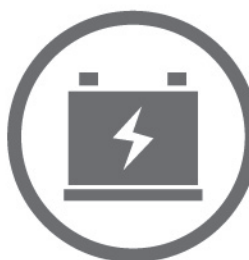
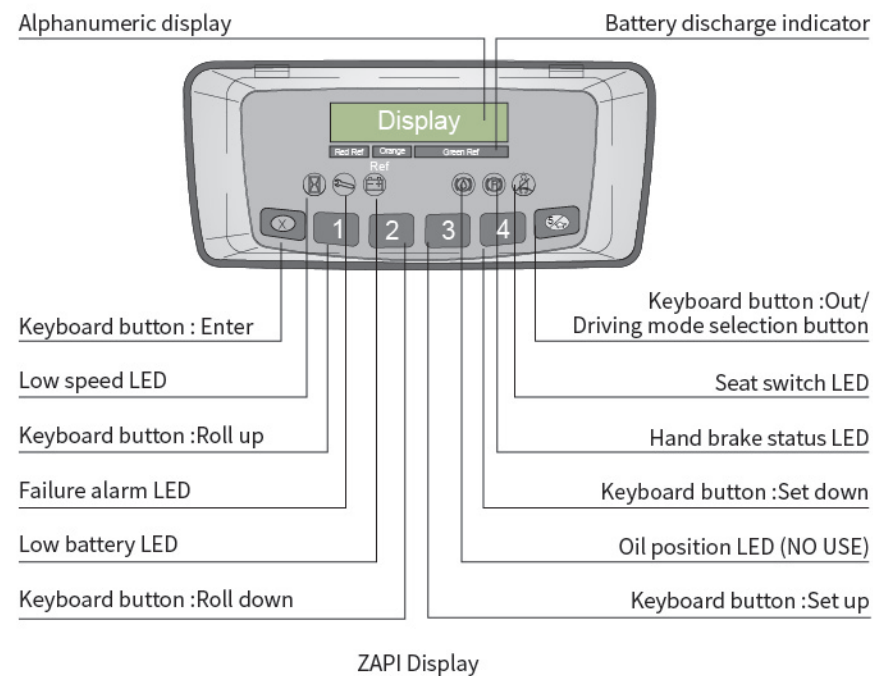


HELI



Reliable special designed instrument



RENEWABLE ENERGY TECHNOLOGIES

With the use of the excellent load-sensing steering system and AC controlling renewable energy technologies, the forklift is more energy-saving and the working hour of the battery is extended by 15%.

15%

Standard configuration

Standard of driver presence sensing system
Automatic speed limitation while turning
All solid tire
Automatic water filling
Integrated fork positioner
Full suspension seat
Full vehicle led lights
Double rear working lights
Rotating beep warning light
Automatic parking
Four piece valve, double overload, rubber hose and
Pulley block
Domestic leoch battery
CPD100-GB2 marking 1820 fork

Optional device

Synchronous steering
Electric-hydraulic braking
Cab
Windshield (front windshield/window, top windshield/
window, rear windshield/window)



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* Our products are subject to improvements and changes without notice.

HELI

18700-22000 lbs[8.5-10t] G series battery powered counterbalanced Forklift truck (Lead acid/Lithium)



www.heliforklift.net

G SERIES 8000-10000 lbs

High stability and reliability

- Mature and reliable, excellent performance of international core components: wheel-driving unit, AC traction motor, AC pump motor and controller ,etc;
- Lowering height of gravity center by optimizing the quality distribution of the whole vehicle, the load capacity of mast in high-order position is stronger than trucks with the same tonnage.

Active safety

- Active safety protection, actively slowing down and implementing the parking brake after parking when the critical components are out of order;
- System monitoring the brake temperature is too high, the vehicle limits the speed and travels with the tortoise speed;
- Automatic speed limitation while turning;
- Driver presence sensing system;
- Terminal buffer of lifting, other aspects implement active safety protection.

High efficiency and Energy-saving

- Compact body design makes the vehicle having great flexibility, moving freely as one wishes even in a small space;
- Low vehicle weight ensures low energy consumption;
- Energy-saving type hydraulic system with double pump confluence;
- Full hydraulic synchronous steering system ensures more accurate steering control (Optional);
- Power recovery has priority, piecwise superimposed electric-hydraulic braking with energy regeneration (Optional).
- The Lithium battery forklift equipped with 80V/2*200A fast charger.

Intellectualization

- The circulating cooling system based on multi-point temperature intelligent control makes the temperature of each component in the optimum working range;
- The electronic fan with independent hydraulic oil cooling adopts intelligent control to start and stop, achieving the effect of saving energy and reducing noise at the same time.

Comfortable

- Import super silent gear pump and motor damping pad to ensure low noise of vehicle;
- Fully suspension operator's seat.

Convenient maintenance

- Auto water filling (Lead acid battery) ;
- The body equips with independent interlocking vehicle fast charging interface, intelligent control and diagnosis function to ensure charging safety;
- Maintenance free wet braking;
- Within 30s after vehicle shutdown, the reversal of cooling can remove dust, maintenance free;
- The two groups of batteries are symmetrically arranged on the left and right sides, and can be quickly replaced at any time by lateral side shovel;
- The height of electric control warehouse is suitable for maintenance.

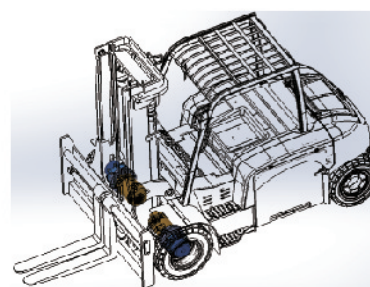
Exterior and Vision

- Fire-new exterior design, the body lines are smooth, beautiful and streamlined;
- Super-low height of balance weight without tailstock, which provides the driver with an excellent rear vision field.



HELI smart fleet management system (optional)

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



Integrated dual driving system



Automatic parking button



Terminal buffer of lifting



Interlocking vehicle fast charging interface



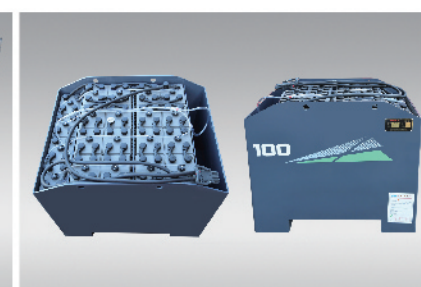
Comfortable height of operation of electric control warehouse and lock-type traction pin



Double rear working lights, revolving beacon



Integrated fork positioner



Auto water filling

G SERIES 8000-10000 lbs

1.01	Manufacturer				HELI														
1.02	Model				CPD85		CPD100		CPD100		CPD85		CPD100		CPD100				
1.03	Configuration number				GA2		GA2		GB2		GA2Li		GA2Li		GB2Li				
1.04	Rated capacity	Q	lbs	kg	18500	8500	22000	10000	22000	10000	18500	8500	22000	10000	22000	10000			
1.05	Load center distance	c	in	mm	24	600	24	600	24	600	24	600	24	600	24	600			
1.06	Power mode				Battery					Battery					Battery				
1.07	Driving mode				Seated					Seated					Seated				
1.08	Wheel base	L1	in	mm	94.5	2400	101.6		2580		94.5	2400	101.6		2580				
2.01	Tyre type				Solid type					Solid type					Solid type				
2.02	Wheel number(front/rear)				4×/2					4×/2					4×/2				
2.03	Front wheel base	W3/W4	in	mm	64.4/60					1636/1524					64.4/60				
2.04	Tyre(front/rear)				8.25-15/250-15					8.25-15/250-15					8.25-15/250-15				
3.01	Front overhang	L2	in	mm	26					600					26				
3.02	Mast tilt angle, front/rear	α/β	°	°	6/9					6/9					6/9				
3.03	Height with mast retraction	H1	in	mm	106.3	2700	112.2	2850	116.1	2950	106.3	2700	112.2	2850	116.1	2950			
3.04	Free lifting height	H3	in	mm	7.1					180					7.1				
3.05	Max.Lifting height	H	in	mm	118.1					3000					118.1				
3.06	Overhead guard height	H4	in	mm	96.3					2445					96.3				
3.07	Overhead guard clearance(from face of seat)	H7	in	mm	40.3					1024					40.3				
3.08	Max.Height under working condition	H2	in	mm	166.4	4226	171.7	4360	177.6	4510	166.4	4226	171.7	4360	177.6	4510			
3.09	Traction pin center height	H9	in	mm	27	687	26.7		677		27	687	26.7		677				
3.10	Backrest height(calculated from the fork surface)	H13	in	mm	40					1012					40				
3.11	fork size :thickness×width×length	T×W×L4	in	mm	3.3×6.9×54					85×175×1370					3.3×6.9×54				
3.12	Truck body length(with forks)	L	in	mm	194.9	4950	202	5130	220	5580	194.9	4950	202	5130	220	5580			
3.13	Truck body length(without forks)	L'	in	mm	140.9	3580		148	3760		140.9	3580		148	3760				
3.14	Truck body width	W2	in	mm	83.3/68.9					2116/1750					83.3/68.9				
3.15	Turning radius	r	in	mm	123.6	3140	130.7		3320		123.6	3140	130.7		3320				
3.16	Clearance between mast and ground	H5	in	mm	5.1/5.9					130/150					5.1/5.9				
3.17	Clearance between wheel base center and ground (loaded)	H6	in	mm	6.7/7.1					170/180					6.7/7.1				
3.18	Right angle stacking aisle width (pallet1000×1200mm across forks, clearance 200mm)	Ast	in	mm	196.9	5000	203.9		5180		196.9	5000	203.9		5180				
3.19	Right angle stacking aisle width (pallet800×1200mm across forks, clearance 200mm)	Ast	in	mm	204.7	5200	211.8		5380		204.7	5200	211.8		5380				
3.20	Lateral fork adjustment (outside of fork)(min/max)	W6	in	mm	16.5-81.1					420-2060					16.5-81.1				
4.01	Travelling speed:loaded/unloaded		mph	km/h	8.7/9.9	14/16	8.1/9.3	13/15	8.7/9.9	14/16	8.1/9.3	13/15	8.7/9.9	14/16	8.1/9.3	13/15			
4.02	Lifting speed :loaded/unloaded		ft/min	m/s	2.36/2.91	0.30/0.37	1.93/2.64	0.245/0.335	2.36/2.91	0.30/0.37	1.93/2.64	0.245/0.335	2.36/2.91	0.30/0.37	1.93/2.64	0.245/0.335			
4.03	Lowering speed:loaded/unloaded		ft/min	m/s	3.31/3					0.42/0.38					3.31/3				
4.04	Gradeability (loaded/unloaded)		%	%	15/25					15/20					15/20				
4.05	Max.Traction force(loaded)		kN	kN	35					45					35				
4.06	Acceleration time(10m)loaded/unloaded		s	s	6/5					6/5					6/5				
5.01	Total weight(with/without battery)		lbs	kg	27778.3/21164.4	12600/9600	29101/21605.3	13200/9800	31217.5/23898.1	14160/10840	25705.9/23280.8	11660/10560	28439.6/26014.6	12900/11800	31217.5/28792.4	14160/13060			
5.02	Axle:unloaded,front/rear		lbs	kg	10434.4/13734.8	6370/6230	14980.4/14142.7	6795/6415	15476.5/15741	7020/7140	12621.5/13084.4	5725/5935	14319/14142.7	6495/6415	15696.9/15520.6	7120/7040			
5.03	Axle:loaded,front/rear		lbs	kg	42615.4/3902.2	19330/1770	47774.2/3373.1	21670/1530	48303.3/4960.4	21910/2250	41204.4/3240.8	18690/1470	47112.8/3373.1	21370/1530	48523.8/4739.9	22010/2150			
6.01	Battery voltage/capacity(discharging capacity in 5 hours)		V/Ah	V/Ah	40/1120×2					40/1240X2					40/1120×2				
6.02	Battery weight		lbs	kg	3306.9X2	1500X2	3527.4×2		1600×2		3306.9X2	1500X2	1212.5×2		550×2				
7.01	Drive motor power(s2- 60min)		PS	kW	AC22.9×2					AC17.1×2					AC22.9×2				
7.02	Lifting motor power(s3-15%)		PS	kW	AC35.5×2					AC26.5×2					AC35.5×2				
7.03	brakinging motor power(s3-15%)		PS	kW	AC 6.7					AC 5					AC 6.7				
7.04	Drive motor controlling mode				MOSFET/AC					MOSFET/AC					MOSFET/AC				
7.05	Lifting motor controlling mode				MOSFET/AC					MOSFET/AC					MOSFET/AC				
7.06	Braking motor controlling mode				MOSFET/AC					MOSFET/AC					MOSFET/AC				
8.01	Service brake				Hydraulic wet brake					Hydraulic wet brake					Hydraulic wet brake				
8.02	Parking brake				Hydraulic ,Electric switch					Hydraulic ,Electric switch					Hydraulic ,Electric switch				
8.03	Hydraulic system working pressure		psi	MPa	2939.2					20					2939.2				
8.04	Type of drive control				ZAPI					ZAPI					ZAPI				

Note 1: This model is reinforced, and the difference between GA2 and GB2 is that it has the ability of 9 t at the center of 900 load. See the load curve for details.

The compact body design and smaller wheelbase allow the vehicle to operate freely in a narrow space while maintaining the power and speed capable of achieving high productivity.

Truck body length(without forks)
3760mm(CPD100)
4210mm(CPCD100) (Others)

Turning radius
3320mm(CPD100)
3900mm(CPCD100) (Others)

Right angle stacking aisle width (pallet1200×1200mm,clearance 200mm)
6040mm(CPD100)
6040mm(CPCD100) (Others)

Ast: Right angle stacking aisle width
a: Clearance
b: Load Length

Load curve

Capacity (kg) vs Load center (mm)

9t@900

14330
12860
10877

CPD100-GA2
CPD100-GA2Li

CPD100-GB2
CPD100-GB2Li

CPD85-GA2
CPD85-GA2Li

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 1200mm 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.

model	battery	(V) voltage (V)	Lead acid battery capacity (Ah)
CPD85	standard	80	1120
	optional	80	1240
CPD100	standard	80	1240
	optional	80	1400
		80	1550

Lithium battery charger					
Lithium battery brand	ENEROC		CNSG Hong sifang		
Voltage/Capacity	80V/808Ah	80V/1084Ah	80V/800Ah	80V/1000Ah	80V/1200Ah
CPD 85	●	○	○	○	○
CPD 100	—	●	—	○	○
Low temperature preheating of lithium battery PACK	●	—	—	—	—
Charger	D80V-400A-Li-124				
Note: ● standard, ○ optional, — non-configurable					

8.5–10t WIDE VIEW MAST										
Mast model	Max.fork height	Load capacity (Load center 24 inch)		Mast height, lowered			Service weight			Mast tilting angle (α/β