



F Series Lithium Battery Forklift Truck

CPD30/35/38-FS/FMZ/FH

TOUGH WORLD.TOUGH EQUIPMENT.



LG-PB-CPD30/35/38-FS/FMZ/FH -052024-EN

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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.

MAIN FEATURES

Unique appearance,Maximum manoeuvrable

- The new family platform design,powerfull appreance, Modern design present fashion industry concept;
- Closed automotive grade instrument platform, beautiful and elegant;
- Special-shaped steel overhead guard for easy cab installation.



Precise control ,comfortable

- The cockpit adopts ergonomic simulation design to bring the driver the driving experience of human-vehicle integration;
- Electro-hydraulic transmission system optimization and matching, acceleration is more agile, hydraulic micro-motion performance is better, more accurate control;
- Transmission, hydraulic, structure and covering parts adopt vibration and noise reduction design, and the vehicle noise is less than 65dB, reaching the industry-leading level;
- The semi-surround seat has good shock absorption performance and alleviates driving fatigue.



SMART

Strong power, Efficient and flexible

- High speed permanent magnet synchronous motor with large speed ratio transmission, acceleration response fast and excellent gradeability;
- Using large angle steering axle, small turning radius, more flexible operation;
- Steering axle hinge point is fixed in high position, good lateral stability, more comfortable driving.



Advanced platform, efficient and convenient

- A new generation of lithium electric forklift special platform, lower center of gravity, more stable driving;
- The side removeable lithium battery can achieve 3 minutes of quick exchange to meet the continuous operation of multiple shifts;
- The charging port is arranged on the side for easy charging.



RELIABLE



Reliable platform, confidently use

- The frame adopts layered layout design, the structural strength is 30% higher than the traditional model, and can adapt to heavy load application;
- The integrated casting steering axle used tapered roller bearings, which have higher strength and can easily cope with heavy and bumpy application;
- Vehicle protection level IPX4 core three electric protection level IP54 or above, meet all-weather operation;
- Truck uses LED lights, high brightness, service life of 20,000 hours

WORRY FREE



Safe and intelligent, technological escort

- Equipped with a 4.3-inch intelligent LCD instrument, runtime display of vehicle status, three driving modes to select, so to meet the requirements of different working conditions;
- It is equipped with a steering wheel intelligent start system, which provides convenient operation when you hold it.

High efficiency and energy saving, low cost

- Permanent magnet synchronous system, higher efficiency, energy consumption is reduced by 15%-20%, lower using costs;
- Braking regenerative energy recovery system, longer battery work time;
- The charger can be setup to charge during the low electricity price period, charging cost reduced by 50%;
- Wide base tires, good wear resistance, long service life.



LOW TCO

Robust and durable,High residual

- High-strength steel, high residual value, significant return on investment;
- The cover is scratch-proof and not easily damaged;
- Automotive-grade instrument panel has good durability;
- The headlight is protected by a metal guard and remains undamaged.



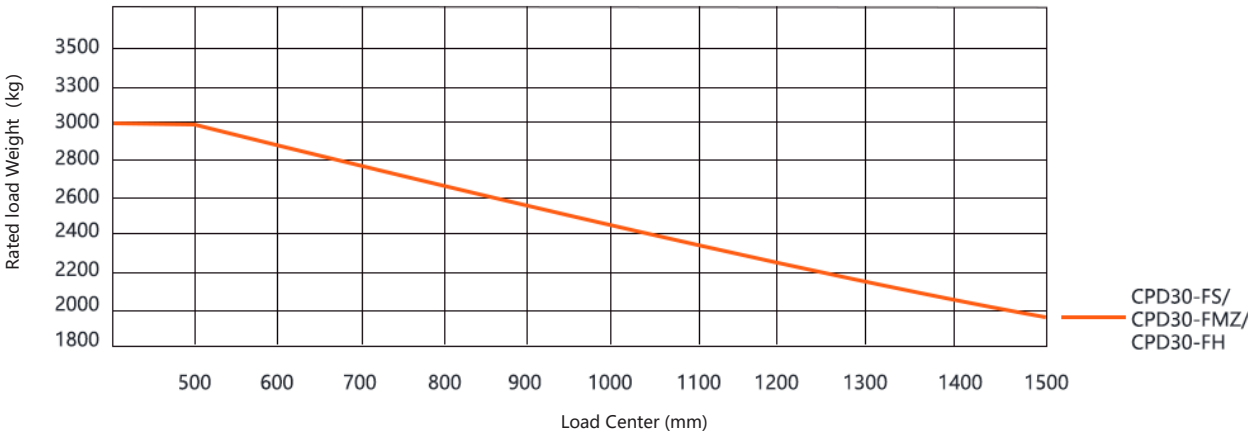
SAVE MONEY

Simple maintenance with low maintenance cost

- Maintenance-free lithium battery, service life of more than 5000 cycles;
 - Controller, pump motor, hydraulic tank and other same layers layout, open the hood can be maintained;
 - The lubrication points are arranged in the easy maintenance area, and the maintenance is simple;
 - The dust-proof filter design of the charger can adapt to the operation of the dust environment.
- Charger dust proof filter design, can adapt to dust environment operation.

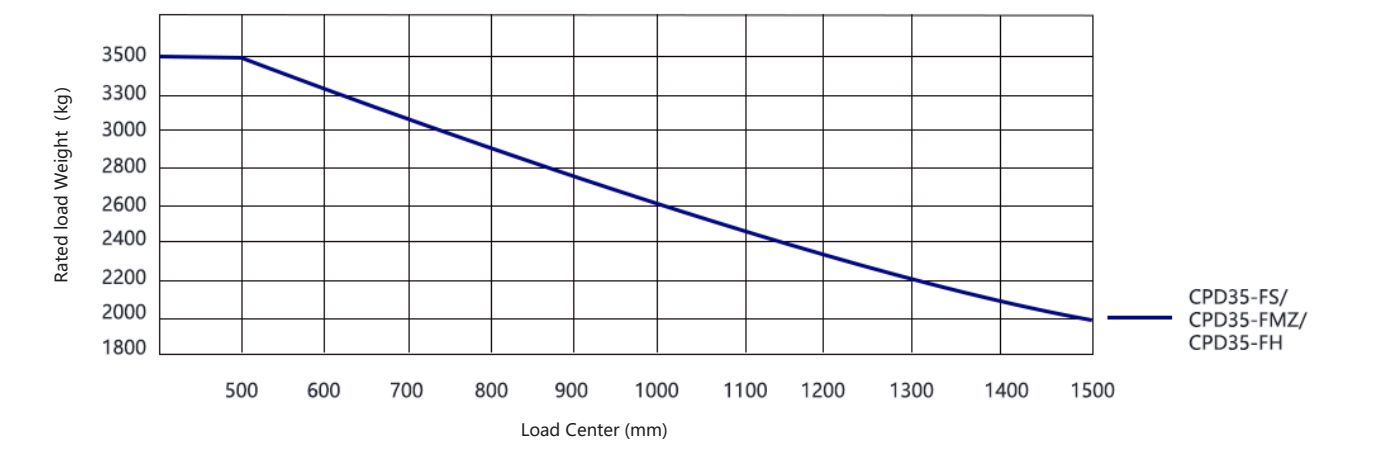
MAST AND CAPACITY INFORMATION

Mast type	Maximum Fork Height (MFH)	Mast Overall Lowered Height (OAL)	Free Lift with Load Backrest	Mast Tilt Angle (F/B)	Rated Load Capacity						Total Weight with Standard Forks					
					With Standard Forks			With Sideshifter								
					mm			°			kg					
					30-FS/FMZ/FH				30-FS	30-FMZ	30-FH	30-FS	30-FMZ	30-FH	30-FS	30-FMZ
Standard 2-Stage	3000	2105	100	6/12	3000	3000	3000	2750	2850	2750	4450	4640	4510			
	3300	2255	100	6/12	3000	3000	3000	2750	2850	2750	4477	4667	4537			
	3500	2355	100	6/12	2750	3000	2750	2600	2850	2600	4495	4685	4555			
	4000	2655	100	6/6	2600	2700	2600	2500	2550	2500	4587	4777	4647			
	4500	2905	100	6/6	2400	2500	2400	2300	2350	2300	4632	4822	4692			
	5000	3155	100	6/6	2200	2300	2200	2100	2150	2100	4677	4867	4737			
	5500	3455	100	6/6	2100	2200	2100	2000	2050	2000	4777	4967	4837			
	6000	3705	100	6/6	2000	2100	2000	1900	1950	1900	4824	5014	4884			
Full Free 2-Stage	2700	1955	763	6/12	3000	3000	3000	2250	2850	2250	4449	4639	4509			
	3000	2105	913	6/12	3000	3000	3000	2750	2850	2750	4477	4667	4537			
	3300	2255	1063	6/12	3000	3000	3000	2750	2850	2750	4505	4695	4565			
	3500	2355	1163	6/12	2750	2850	2750	2600	2700	2600	4524	4714	4584			
Full Free 3-Stage	3600	1850	658	6/6	2650	2750	2650	2450	2600	2450	4617	4807	4677			
	4000	1985	793	6/6	2450	2550	2450	2250	2400	2250	4654	4844	4714			
	4500	2150	958	6/6	2250	2350	2250	2050	2200	2050	4700	4890	4760			
	4700	2220	1028	6/6	2100	2200	2100	1950	2050	1950	4719	4909	4779			
	5000	2320	1128	6/6	1900	2000	1900	1600	1850	1600	4746	4936	4806			
	5500	2570	1378	6/6	1700	1800	1700	1450	1650	1450	4928	5118	4988			
	6000	2820	1628	6/6	1500	1600	1500	1300	1450	1300	4994	5184	5054			



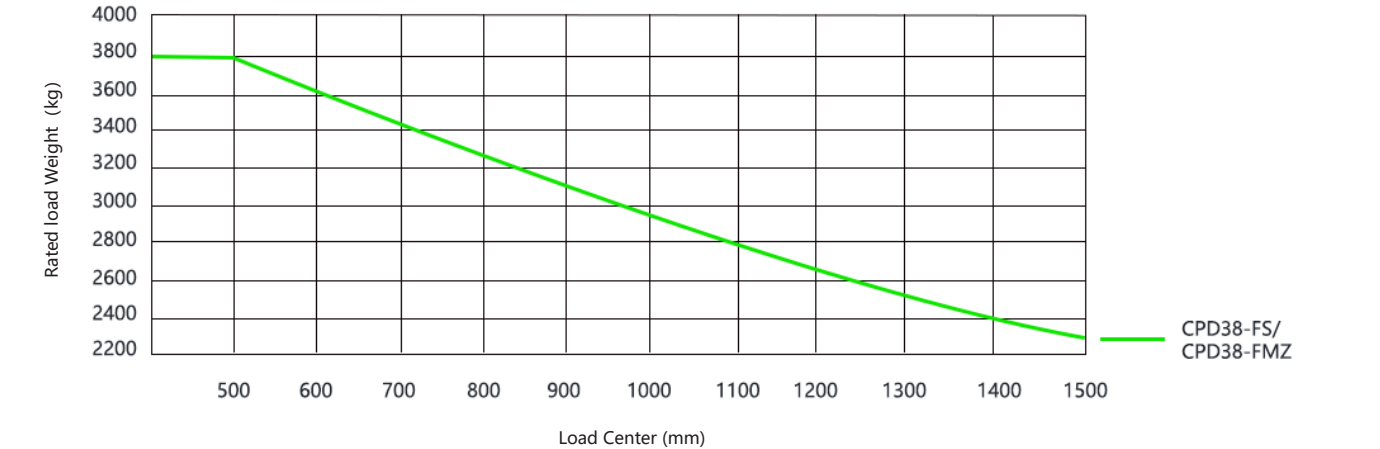
MAST AND CAPACITY INFORMATION

Mast type	Maximum Fork Height (MFH)	Mast Overall Lowered Height (OAL)	Free Lift with Load Backrest	Mast Tilt Angle (F/B)	Rated Load Capacity						Total Weight with Standard Forks					
					With Standard Forks			With Sideshifter								
					mm			°			kg					
					35-FS/FMZ/FH				35-FS	35-FMZ	35-FH	35-FS	35-FMZ	35-FH	35-FS	35-FMZ
Standard 2-Stage	3000	2150	100	6/12	3500	3500	3500	3350	3350	3350	4800	4960	4860			
	3300	2300	100	6/12	3500	3500	3500	3350	3350	3350	4828	4988	4888			
	3500	2400	100	6/12	3250	3500	3250	3100	3350	3350	4846	5006	4906			
	4000	2700	100	6/6	3100	3200	3100	2950	3050	3050	4945	5105	5005			
	4500	2950	100	6/6	2900	3000	2900	2750	2850	2850	4991	5151	5051			
	5000	3200	100	6/6	2700	2800	2700	2550	2650	2650	5036	5196	5096			
	5500	3500	100	6/6	2600	2700	2600	2450	2550	2550	5113	5273	5173			
	6000	3750	100	6/6	2500	2600	2500	2350	2450	2450	5161	5321	5221			
Full Free 2-Stage	2700	2000	810	6/12	3500	3500	3500	3350	3450	3450	4811	4971	4871			
	3000	2150	960	6/12	3500	3500	3500	3350	3450	3450	4842	5002	4902			
	3300	2300	1110	6/12	3500	3500	3500	3350	3450	3450	4873	5033	4933			
	3500	2400	1210	6/12	3250	3350	3250	3100	3200	3200	4893	5053	4953			
Full Free 3-Stage	3600	1920	730	6/6	3150	3250	3150	3000	3100	3100	5017	5177	5077			
	4000	2055	865	6/6	2950	3050	2950	2800	2900	2900	5057	5217	5117			
	4500	2220	1030	6/6	2750	2850	2750	2600	2700	2700	5107	5267	5167			
	4700	2290	1100	6/6	2600	2700	2600	2450	2550	2550	5123	5283	5183			
	5000	2390	1200	6/6	2400	2500	2400	2250	2350	2350	5157	5317	5217			
	5500	2640	1450	6/6	2200	2300	2200	2050	2150	2150	5266	5426	5326			
	6000	2890	1700	6/6	2000	2100	2000	1850	1950	1950	5334	5494	5394			



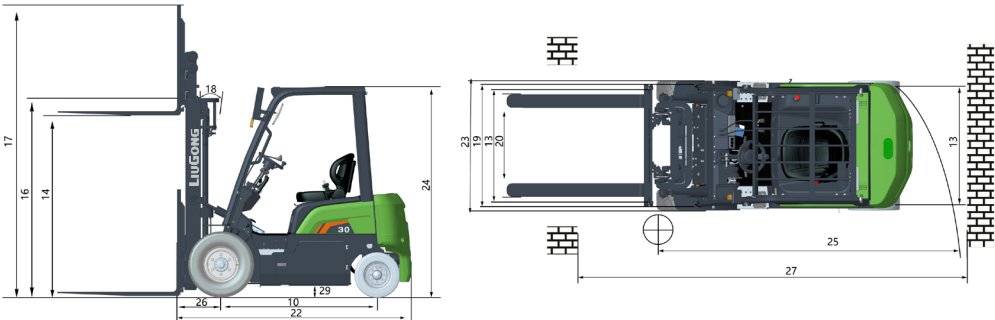
MAST AND CAPACITY INFORMATION

Mast type	Maximum Fork Height (MFH)	Mast Overall Lowered Height (OAL)	Free Lift with Load Backrest	Mast Tilt Angle (F/B)	Rated Load Capacity				Total Weight with Standard Forks					
					With Standard Forks		With Sideshifter							
					mm			°	kg				kg	
					38-FS/FMZ				38-FS	38-FMJZ	38-FS	38-FMZ	38-FS	38-FMZ
Standard 2-Stage	3000	2150	100	6/12	3800	3800	3650	3550	4860	5110				
	3300	2300	100	6/12	3800	3800	3650	3550	4887	5137				
	3500	2400	100	6/12	3550	3550	3400	3400	4905	5155				
	4000	2700	100	6/6	3400	3500	3250	3300	4993	5243				
	4500	2950	100	6/6	3200	3300	3050	3100	5038	5288				
	5000	3200	100	6/6	3000	3100	2850	2900	5083	5333				
	5500	3500	100	6/6	2900	3000	2750	2800	5137	5387				
	6000	3750	100	6/6	2800	2900	2650	2700	5182	5432				
Full Free 2-Stage	2700	2000	810	6/12	3800	3900	3650	3550	4861	5111				
	3000	2150	960	6/12	3800	3900	3650	3550	4890	5140				
	3300	2300	1110	6/12	3800	3900	3650	3550	4920	5170				
	3500	2400	1210	6/12	3550	3650	3400	3400	4938	5188				
Full Free 3-Stage	3600	1920	730	6/6	3450	3550	3300	3250	5071	5321				
	4000	2055	865	6/6	3250	3350	3100	3050	5109	5359				
	4500	2220	1030	6/6	3050	3150	2900	2850	5155	5405				
	4700	2290	1110	6/6	2800	2900	2650	2600	5170	5420				
	5000	2390	1200	6/6	2700	2800	2550	2400	5202	5452				
	5500	2640	1450	6/6	2500	2600	2350	2250	5274	5524				
	6000	2890	1700	6/6	2300	2400	2150	2100	5336	5586				



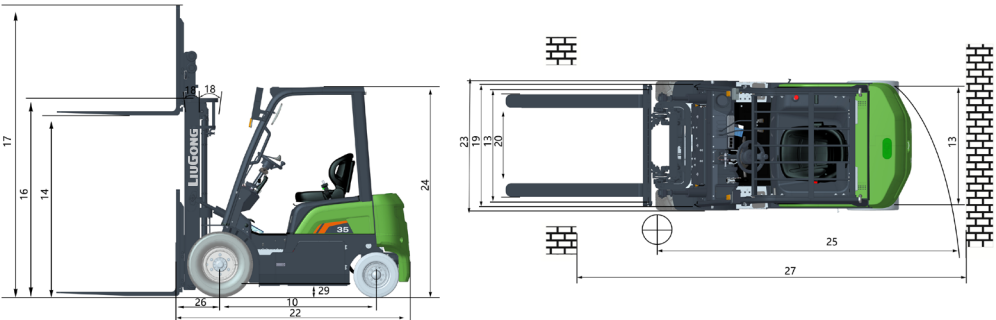
PRODUCT SPECIFICATIONS

General	Model	1			CPD30	CPD30	CPD30
	Configuration number	2			FS	FMZ	FH
	Base Capacity	3	Rated load center	kg	3000	3000	3000
	Load Center	4		mm	500	500	500
Weights	Service Weight	5	Unloaded	kg	4450	4640	4510
	Axle Load	6	Full load, front/rear	kg	6525/925	6575/1065	6585/925
		7	unloaded, front/rear	kg	1805/2645	1855/2785	1865/2645
Tires	Tire Type	8	Front wheel/rear wheel		Pneumatic tire/solid tire	solid tire/solid tire	solid tire/solid tire
	Wheels	9	Front wheel/rear wheel		2/2	2/2	2/2
	Wheelbase	10		mm	1700	1700	1700
	Tire Size	11	Front Tire		28×9-15-14PR	28×9-15PR	28×9-15PR
		12	Rear wheel		200/50-10PR	200/50-10PR	200/50-10PR
Mast	Tread Width	13	Front wheel/rear wheel	mm	1044/998	1044/998	1044/998
	Max. Fork Height	14	std 2-Stage mast	mm	3000	3000	3000
	Free lift	15	std 2-Stage mast	mm	100	100	100
	Height, mast lowered	16	std 2-Stage mast	mm	2090	2090	2090
	Height, mast extended	17	std 2-Stage mast	mm	4080	4080	4080
	Mast tilt, fwd/back	18	std 2-Stage mast	°	6/12	6/12	6/12
	Fork carriage	19	Installation rating		3A	3A	3A
	Fork spread	20	Min/Max	mm	270/1098	270/1098	270/1098
	Fork dimensions	21	T x W x L	mm	45/122/1070	45/122/1070	45/122/1070
	Overall Length (to thefront end of the fork)	22	std 2-Stage mast	mm	2650	2650	2650
Chassis	Overall width	23		mm	1264	1264	1264
	Overhead Guard Height	24		mm	2160	2160	2160
	Turning Radius	25		mm	2290	2290	2290
	Fork Overhang	26			475	475	475
	Right Angle Stack	27	AST1000×1200 Crossways	mm	3965	3965	3965
	add load length and clearance	28	AST800×1200 Lengthways	mm	4165	4165	4165
	Ground Clearance	29	minimum loaded	mm	130	130	130
		30	center of wheelbase	mm	120	120	120
Performance	Travel speed	31	Full load/unloaded	km/h	15/15	17/18	20/22
	Lift speed	32	Full load/unloaded	mm/s	290/430	380/430	380/430
	Lower speed	33	Full load/unloaded	mm/s	500/450	500/450	500/450
	Max. traction force	34	5-minute working system	KN	18	18	18
	Maximum Gradeability	35	Full load/unloaded	%	15/18	18/20	20/22
Systems	Electrical control, motor type	36	Permanent magnet synchronization				
	Drive motor power	37	S2 60min working system	kW	14	14	14
	Work pump motor power	38	S3 15%working system	kW	16	20	20
	Battery	39	Voltage	V	80	80	80
		40	Capacity	Ah	sta: 230 opt: 280/412/460/560/608	sta: 280 opt: 412/460/560/608	



PRODUCT SPECIFICATIONS

General	Model	1			CPD35	CPD35	CPD35
	Configuration number	2			FS	FMZ	FH
	Base Capacity	3	Rated load center	kg	3500	3500	3500
	Load Center	4		mm	500	500	500
Weights	Service Weight	5	Unloaded	kg	4800	4960	4860
	Axle Load	6	Full load, front/rear	kg	7340/960	7405/1055	7400/960
		7	unloaded, front/rear	kg	1840/2960	1900/3060	1900/2960
Tires	Tire Type	8	Front wheel/rear wheel		Pneumatic tire/solid tire	solid tire/solid tire	solid tire/solid tire
	Wheels	9	Front wheel/rear wheel		2/2	2/2	2/2
	Wheelbase	10		mm	1700	1700	1700
	Tire Size	11	Front Tire		28×9-15-14PR	28×9-15PR	28×9-15PR
		12	Rear wheel		200/50-10PR	200/50-10PR	200/50-10PR
Mast	Tread Width	13	Front wheel/rear wheel	mm	1044/998	1044/998	1044/998
	Max. Fork Height	14	std 2-Stage mast	mm	3000	3000	3000
	Free lift	15	std 2-Stage mast	mm	100	100	100
	Height, mast lowered	16	std 2-Stage mast	mm	2155	2155	2155
	Height, mast extended	17	std 2-Stage mast	mm	4080	4080	4080
	Mast tilt, fwd/back	18	std 2-Stage mast	°	6/12	6/12	6/12
	Fork carriage	19	Installation rating		3A	3A	3A
	Fork spread	20	Min/Max	mm	270/1098	270/1098	270/1098
	Fork dimensions	21	T x W x L	mm	50/122/1070	50/122/1070	50/122/1070
	Overall Length (to thefront end of the fork)	22	std 2-Stage mast	mm	2650	2650	2650
Chassis	Overall width	23		mm	1264	1264	1264
	Overhead Guard Height	24		mm	2160	2160	2160
	Turning Radius	25		mm	2290	2290	2290
	Fork Overhang	26			480	480	480
	Right Angle Stack	27	AST1000×1200 Crossways	mm	3970	3970	3970
	add load length and clearance	28	AST800×1200 Lengthways	mm	4170	4170	4170
	Ground Clearance	29	minimum loaded	mm	130	130	130
		30	center of wheelbase	mm	120	120	120
Performance	Travel speed	31	Full load/unloaded	km/h	15/15	17/18	20/22
	Lift speed	32	Full load/unloaded	mm/s	290/430	380/430	380/430
	Lower speed	33	Full load/unloaded	mm/s	500/450	500/450	500/450
	Max. traction force	34	5-minute working system	KN	18	18	18
	Maximum Gradeability	35	Full load/unloaded	%	15/18	18/20	20/22
Systems	Electrical control, motor type	36	Permanent magnet synchronization				
	Drive motor power	37	S2 60min working system	kW	14	14	20
	Work pump motor power	38	S3 15%working system	kW	16	26	25
	Battery	39	Voltage	V	80	80	80
		40	Capacity	Ah	sta: 230 opt: 280/412/460/560/608	sta: 280 opt: 412/460/560/608	



PRODUCT SPECIFICATIONS

General	Model	1			CPD38	CPD38
	Configuration number	2			FS	FMZ
	Base Capacity	3	Rated load center	kg	3800	3800
	Load Center	4		mm	500	500
Weights	Service Weight	5	Unloaded	kg	4860	5110
	Axle Load	6	Full load , front/rear	kg	7780/880	7860/1050
		7	unloaded , front/rear	kg	1860/3000	1940/3170
Tires	Tire Type	8	Front wheel/rear wheel		Pneumatic tire/solid tire	solid tire/solid tire
	Wheels	9	Front wheel/rear wheel		2/2	2/2
	Wheelbase	10		mm	1750	1750
	Tire Size	11	Front Tire		28×9-15PR	28×9-15PR
		12	Rear wheel		200/50-10PR	200/50-10PR
	Tread Width	13	Front wheel/rear wheel	mm	1044/998	1044/998
Mast	Max. Fork Height	14	std 2-Stage mast	mm	3000	3000
	Free lift	15	std 2-Stage mast	mm	100	100
	Height, mast lowered	16	std 2-Stage mast	mm	2155	2155
	Height, mast extended	17	std 2-Stage mast	mm	4080	4080
	Mast tilt, fwd/back	18	std 2-Stage mast	°	6/12	6/12
	Fork carriage	19	Installation rating		3A	3A
	Fork spread	20	Min/Max	mm	270/1098	270/1098
	Fork dimensions	21	T x W x L	mm	50/122/1070	50/122/1070
Chassis	Overall Length (to thefront end of the fork)	22	std 2-Stage mast	mm	2780	2780
	Overall width	23		mm	1264	1264
	Overhead Guard Height	24		mm	2160	2160
	Turning Radius	25		mm	2375	2375
	Fork Overhang	26			480	480
	Right Angle Stack	27	AST1000×1200 Crossways	mm	4055	4055
	add load length and clearance	28	AST800×1200 Lengthways	mm	4255	4255
	Ground Clearance	29	minimum loaded	mm	130	130
		30	center of wheelbase	mm	120	120
	Performance	Travel speed	31	Full load/unloaded	km/h	15/15
Lift speed		32	Full load/unloaded	mm/s	310/430	350/470
Lower speed		33	Full load/unloaded	mm/s	500/450	500/450
Max. traction force		34	5-minute working system	KN	18	18
Maximum Gradeability		35	Full load/unloaded	%	15/20	18/20
Systems	Electrical control, motor type	36	Permanent magnet synchronization			
	Drive motor power	37	S2 60min working system	kW	14	20
	Work pump motor power	38	S3 15%working system	kW	16	25
	Battery	39	Voltage	V	80	80
		40	Capacity	Ah	sta: 230 opt: 280/412/460/560/608	

STANDARD SPECIFICATIONS/
AVAILABLE OPTIONS

configuration	standard	option
Battery type	lithium-ion Battery	Big capacity lithium-ion battery;Fast charging lithium-ion battery;Battery heating
tires	pneumatic	Solid tires; Pneumatic dual tires;Solid and Pneumatic dual tires;Non-mark pneumatic tires;Control valve 2 way valve、3 way valve、 4 way valve
light system	LED light F/R light protect guard	Warning lamp、Rear work light、license plate light、Regional red warning lights(left、right、rear)、blue spot light(front/rear)、rear grab with horn button
Cold/warm system	/	Heater、Air-condition(only cooling)
Intelligent Control System	OPS Control ;slope Parking ;USB charging port	Automatic speed limit function for steering; Steering wheel active HYD system
Overhead guard	Overhead guard; Rain shelter	Cab;Front windshield;Three rear view mirrors Overhead guard with plate on top; Transparent
Seat	Semi-surrounded seat	Semi-suspension/Full-suspension seat/Grammer seat
mast	2 stage 3m mast	2 stage 3-6m Duplex mast; 2 stage 2.7-3.5m Full Free Lift mast 3 stage 3.6-6m Full Free Lift mast

Others lowering cushion Sideshifter ; Attachment

