



CREATING A BETTER FUTURE



LG-PB-CPD40/45/50L/50-EMT -082024-EN

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E **SERIES**
LITHIUM BATTERY

CPD40/45/50L/50



TOUGH WORLD.TOUGH EQUIPMENT.

MAIN FEATURES

ENERGY SAVING

- Efficient permanent magnet synchronization technology, energy regeneration, Energy consumption 4-6kwh/h reduce 15%-20%
- Simple maintenance, maintenance-free battery, motor, electric controller, 5 years TCO lower than the internal combustion truck saving 57% total cost



HIGH EFFICIENCY

- High speed and power motor with large speed ratio transmission, replace internal combustion forklifts in factory work
- High efficiency heat dissipation system suit for a long time under harsh conditions with ambient temperature above 45°C
- Optional dual plug charging technology to achieve 1.5h full charge



DURABLE AND RELIABLE

- High protection level of electrical system, Motor :IP54, Controller : IP56, to meet all-weather operation
- Reinforced tapered roller steering axle with large rear tires for greater load capacity and longer service life
- Long wheelbase design, good stability load capacity increased by 30%
- Use internal combustion truck mast can meet the stone, steel and other heavy duty working conditions
- High quality lithium battery, 6 years or 12,000 hours guarantee

COMFORTABLE OPERATION

- Cockpit ergonomic layout to alleviate driving fatigue
- Standard semi-surround seat care for driver waist
- Optional dual brake pedal configuration, can achieve micro-operation
- Fork lowering to the bottom buffer make a small impact, protect the goods



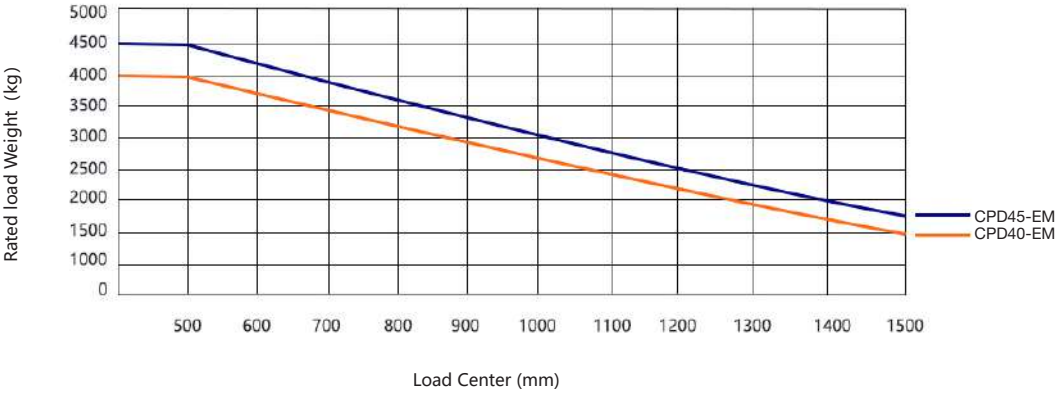
INTELLIGENT COMMUNICATION

- Charger can be booked to charge during the low electricity price period .
- Charging cost reduced by 50%

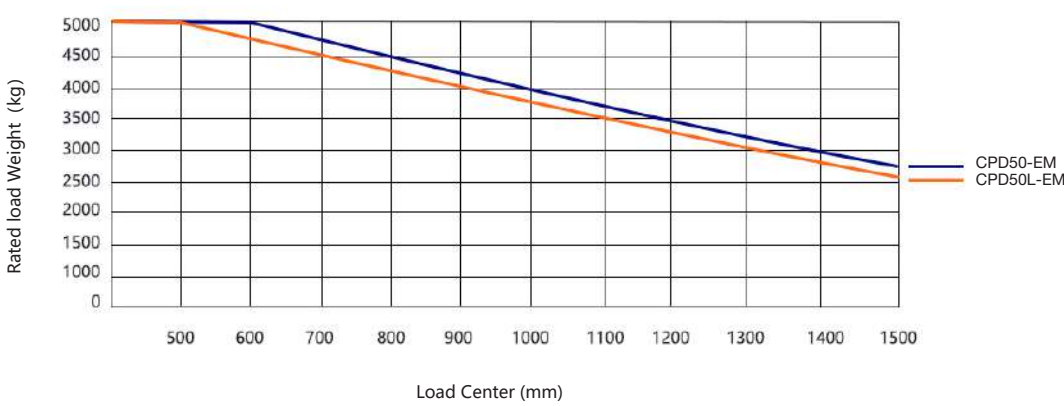
MAST AND CAPACITY INFORMATION

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Mast type	Maximum Fork Height	Mast lowered height	Free Lift with Load Backrest	Mast Tilt Angle	Rated Load Capacity				Total Weight with Standard Forks	
					With Standard Forks		With Sideshifter			
	mm	mm	mm	°	kg @ 500mm LC				kg	
CPD40/45-EM										
Standard 2-Stage	2700	2135	170	6/12	4000	4500	3680	4150	5953	6303
	3000	2285	170	6/12	4000	4500	3680	4150	5990	6340
	3500	2535	170	6/12	4000	4500	3680	4150	6056	6406
	4000	2835	170	6/6	4000	4500	3680	4150	6209	6559
	4500	3085	170	6/6	3900	4400	3590	4060	6274	6624
	5000	3335	170	6/6	3700	4200	3400	3870	6338	6688
	5500	3635	170	6/6	3500	3900	3210	3590	6415	6765
	6000	3885	170	6/6	3200	3600	2930	3310	6479	6829
Full Free 2-Stage	2700	2135	993	6/12	4000	4500	3680	4150	5974	6324
	3000	2285	1143	6/12	4000	4500	3680	4150	6015	6365
Full Free 3-Stage	4000	2115	973	6/6	4000	4500	3680	4150	6227	6577
	4300	2220	1078	6/6	3900	4400	3590	4060	6268	6618
	4500	2285	1143	6/6	3800	4300	3490	3960	6315	6665
	4800	2385	1243	6/6	3700	4100	3400	3780	6332	6682
	5000	2450	1308	6/6	3600	4000	3310	3680	6358	6708
	5500	2665	1523	6/6	3400	3800	3120	3490	6440	6790
	6000	2845	1703	6/6	3100	3500	2840	3210	6510	6860
	6500	3050	1908	6/6	2800	3200	2550	2930	6586	6936



Mast type	Maximum Fork Height	Mast lowered height	Free Lift with Load Backrest		Mast Tilt Angle		Rated Load Capacity				Total Weight with Standard Forks		
							With Standard Forks		With Sideshifter				
	mm	mm	mm	°	kg @ 500mm LC	kg @ 600mm LC	kg @ 500mm LC	kg @ 600mm LC	kg				
CPD50L/50-EM CPD50L-EM CPD50-EM CPD50L-EM CPD50-EM CPD50L-EM CPD50-EM CPD50L-EM CPD50-EM CPD50L-EM CPD50-EM CPD50L-EM CPD50-EM													
Standard 2-Stage	2700	2135	2195	170	170	6/12	6/12	5000	5000	4500	4500	6543	7113
	3000	2285	2345	170	170	6/12	6/12	5000	5000	4500	4500	6580	7150
	3500	2535	2595	170	170	6/12	6/12	5000	5000	4500	4500	6646	7218
	4000	2835	2895	170	170	6/6	6/6	5000	5000	4500	4500	6799	7365
	4500	3085	3145	170	170	6/6	6/6	4900	4900	4500	4500	6864	7433
	5000	3335	3395	170	170	6/6	6/6	4600	4600	4250	4280	6928	7497
	5500	3635	3695	170	170	6/6	6/6	4300	4300	3960	3990	7005	7573
	6000	3885	3945	170	170	6/6	6/6	4000	4000	3680	3710	7069	7637
Full Free 2-Stage	2700	2135	2195	993	815	6/12	6/12	5000	5000	4500	4500	6564	7110
	3000	2285	2345	1143	965	6/12	6/12	5000	5000	4500	4500	6605	7151
	3500	-	2595	-	1215	-	6/12	-	5000	-	4500	-	7264
	4000	-	2895	-	1515	-	6/6	-	5000	-	4500	-	7354
Full Free 3-Stage	4000	2115	2175	973	795	6/6	6/6	5000	5000	4500	4500	6817	7382
	4300	2220	2280	1078	900	6/6	6/6	4900	4900	4500	4500	6858	7424
	4500	2285	2345	1143	965	6/6	6/6	4800	4800	4430	4460	6905	7453
	4800	2385	2445	1243	1065	6/6	6/6	4600	4600	4250	4280	6922	7491
	5000	2450	2510	1308	1130	6/6	6/6	4500	4500	4150	4180	6948	7519
	5500	2665	2725	1523	1345	6/6	6/6	4200	4200	3870	3900	7030	7600
	6000	2845	2905	1703	1525	6/6	6/6	3900	3900	3590	3610	7100	7672
	6500	3050	3110	1908	1730	6/6	6/6	3600	3600	3310	3330	7176	7755



PRODUCT SPECIFICATIONS

General	Model				CPD40	CPD45	CPD50L	CPD50
	Configuration Number	1			EM	EM	EM	EM
	Base Capacity	2	Rated load center	kg	4000	4500	5000	5000
	Load Center	3		mm	500	500	500	600
Weights	Service Weight	4	Unloaded	kg	5990	6340	6580	7150
	Axle Load	5	Full load,front/rear	kg	8725/1265	9510/1330	10210/1370	10680/1470
		6	Unloaded,front/rear	kg	2725/3265	2760/3580	2710/3870	2940/4210
Tires	Tire Type	7	Pneumatic tire		Pneumatic tire	Pneumatic tire	Pneumatic tire	Pneumatic tire
	Wheels	8	Front /rear		2 / 2	2 / 2	2 / 2	2/2
	Wheelbase	9		mm	2100	2100	2100	2100
	Tire Size	10	Front		8.25-15-14PR	300-15-18PR	300-15-18PR	300-15-18PR
		11	Rear		7.00-12-12PR	7.00-12-12PR	7.00-12-12PR	7.00-12-12PR
	Tread Width	12	Front /rear	mm	1189/1190	1176/1190	1176/1190	1176/1190
Mast	Max. Fork Height	13	Std 2-Stage mast	mm	3000	3000	3000	3000
	Free lift	14	Std 2-Stage mast	mm	170	170	170	170
	Height, mast lowered	15	Std 2-Stage mast	mm	2285	2285	2285	2345
	Height, mast extended	16	Std 2-Stage mast	mm	4177	4177	4177	4420
	Mast tilt, fwd/back	17	Std 2-Stage mast	°	6 / 12	6 / 12	6 / 12	6 / 12
	Fork carriage	18		mm	1424	1424	1424	1424
	Fork spread	19	Min/Max	mm	300/1380	300/1380	300/1380	300/1380
	Fork dimensions	20	T x W x L	mm	50 x 150 x 1070	50 x 150 x 1070	50 x 150 x 1070	50 x 150 x 1220
	Overall Length (to thefront end of the fork)	21	Std 2-Stage mast	mm	3195	3195	3230	3230
	Overall width	22		mm	1493	1493	1493	1493
Chassis	Overhead Guard Height	23		mm	2350	2350	2350	2350
	Turning Radius	24		mm	2900	2900	2930	2930
	Fork Overhang	25	Std 2-Stage mast	mm	548	548	548	548
	Right Angle Stack	26	AST 800×1200 Crossways	mm	4848	4848	4878	4878
		27	AST 1000×1200 Lengthways	mm	4648	4648	4678	4678
	add load length and clearance	28	AST 800×1200 Crossways	mm	3100	3100	3130	3130
		29	AST 1000×1200 Lengthways	mm	3100	3100	3130	3130
	Ground Clearance	30	minimum loaded	mm	165	165	165	165
		31	center of wheelbase	mm	230	230	230	230
Performance	Travel speed	32	Full load/unloaded	km/h	18/19	18/19	18/19	18/19
	Lift speed	33	Full load/unloaded	mm/s	460/500	430/500	400/500	400/500
	Lower speed	34	Full load/unloaded	mm/s	520/480	520/480	520/480	520/480
	Max. traction force	35	5-minute working system	KN	23.5	23.5	23.5	23.5
	Maximum Gradeability	36	Full load/unloaded	%	20/28	19/27	18/26	17/25
Systems	Electric-control	37			AC	AC	AC	AC
	Drive motor	38	S2 60min working system	kW	24.5	24.5	24.5	24.5
	Pump motor	39	S3 15%working system	kW	32.5	32.5	32.5	32.5
	Battery	40	Types		Lithium battery	Lithium battery	Lithium battery	Lithium battery
		41	Voltage	V	80	80	80	80
		42	Capacity	Ah	Sta:560 Opt:690	Sta:560 Opt:690	Sta:560 Opt:690	Sta:560 Opt:690

STANDARD SPECIFICATIONS/AVAILABLE OPTIONS

CONFIGURATION	STANDARD	OPTIONAL
Lithium battery	80V/560Ah	80V/690Ah(Dual plug)
Charger	Three-phase 380V 80V/200A	Three-phase 380V 80V/100A Three-phase 380V 80V/150A
Tyres	Pneumatic tyre	Solid tyre、none-marking tyre、 Pneumatic twin tyre、 Solid twin tyre
Multi valve	Two way valve	Three way valve Four way valve
Seat	Semi-surrounded seat	Semi-suspension seat、 Full-suspension seat Grammer seat 2 stage mast
Mast	2 stage 3m mast	2 stage Full-free mast 3 stage Full-free mast
Light	LED work light	Rear working light、 Warning light、 Road plate light、 Reverse buzzer
Cooling and heat system	-	Air condition、 Fans heater、 Fans
Auxiliary control	-	Curve deceleration、 Bottom lowering buffer、 Reverse camera、 Reverse grab handle with horn Button、 Valve control unit control Cockpit、 Over head guard(windshield)、
Over head guard	Canopy	Over head guard (front+rear windshield)、 Three direction mirrors
Carriage	Fork carriage width 1.8m	Multiple specifications
Fork	CPD40-50L: Fork 1070mm CPD50: Fork 1220mm	Multiple specifications
Attachments	-	Sideshift、 Tilt Fork、 Carbon camp、 Rotate、 Fork positioning

WEIGHT CHART

* Total weight increased by adding below optional configuration accordingly.

PART	WEIGHT DIFFERENT										
FORK	Size(mm)	1220 (STD)	1370	1520	1670	1820	1970	2120	2440	less forks	
	Weight (Kg)	0	18	36	54	72	90	108	144	-220	
LOAD BACKREST	Size (m)	1.38mx1.3m(STD)	less	1.85mx1.3m	Lithium battery(Ah)			560Ah	690Ah		
	Weight (Kg)	0	-44	52		Weight (Kg)		0	72		
CARRIAGE	Size (mm)	2 stage width1.38m		2 Full stage width1.38m		3 Full stage width1.38m		2 stage width1.85m		3 Full stage width1.85m	
	Weight (Kg)	0		5		3		58		61	
TIRES	Type	Front/Rear pneumatic			Front/Rear solid			Front Double pneumatic		Front Double Solid	
	Weight (Kg)	0/0		120/56			67			296	
ATTACHMENTS	Type	Sideshifter(Cascade)/Chinese		Fork positioner			Paper clamp		positioner with side shift		
	Weight (Kg)	170/-		220			728			257	
OVER HEADGUARD AND CAB	Type	Cab with AC/without AC		OVH guard with windscreen		OVH guard with protective steel plate			Short OVH guard		
	Weight (Kg)	-/81		63		25			-		

