

EFX4-301

LI-ION COUNTERBALANCE FORKLIFT WITH MANUAL-SWAP BATTERY PACKS 3.0T

 3000 kg  6000 mm  80 V Li-Ion



The EFL302X4 is ideal for logistics companies, construction sites, and rental fleets that need dependable power in areas with limited charging infrastructure. Its swappable modular batteries allow uninterrupted operation by rotating charged packs, while the optional multi-battery charging station provides a convenient plug-and-play charging solution. Suitable for outdoor and off-grid environments, it combines the endurance of IC forklifts with the sustainability of electric power.

SPECIFICATION	REF	UNIT	VALUE
Manufacturer			EP
Model designation			EFX4-301
Battery voltage		V	80
Rated capacity	Q	kg	3000
Load centre distance	c	mm	500
Service weight		kg	4378
Height, mast lowered	h ₁	mm	2070
Lift	h ₃	mm	3000
Height, mast extended	h ₄	mm	4130
Overall length	l ₁	mm	3735
Overall width	b ₁ /b ₂	mm	1228
Length to face of forks	l ₂	mm	2665
Fork dimensions	s/e/l	mm	45×122×1070
Turning radius	Wa	mm	2428
Drive			Electric
Operator type			Seated

Features

Manual-swap modular batteries

Lightweight 26 kg Li-ion battery packs can be manually replaced in seconds, eliminating downtime and enabling 24/7 operation. The side-access design simplifies handling and reduces maintenance requirements, making it ideal for rental and mobile applications.



PLUG-AND-PLAY SOLUTION:
MODULAR BATTERY PACKS CHARGING STATION

Remote charging and optional station

The EFL302X4 supports off-site charging — batteries can be removed and charged separately using an optional six-slot charging station. This modular approach ensures operational safety, flexibility, and continuous power availability even without fixed infrastructure.

Advanced power and control system

Equipped with an 80V/100Ah lithium system, smart BMS, and PMS motor, the EFL302X4 ensures optimal energy efficiency, smooth acceleration, and extended runtime. Its powertrain reduces energy consumption and supports consistent performance across shifts.



Ergonomic design and visibility

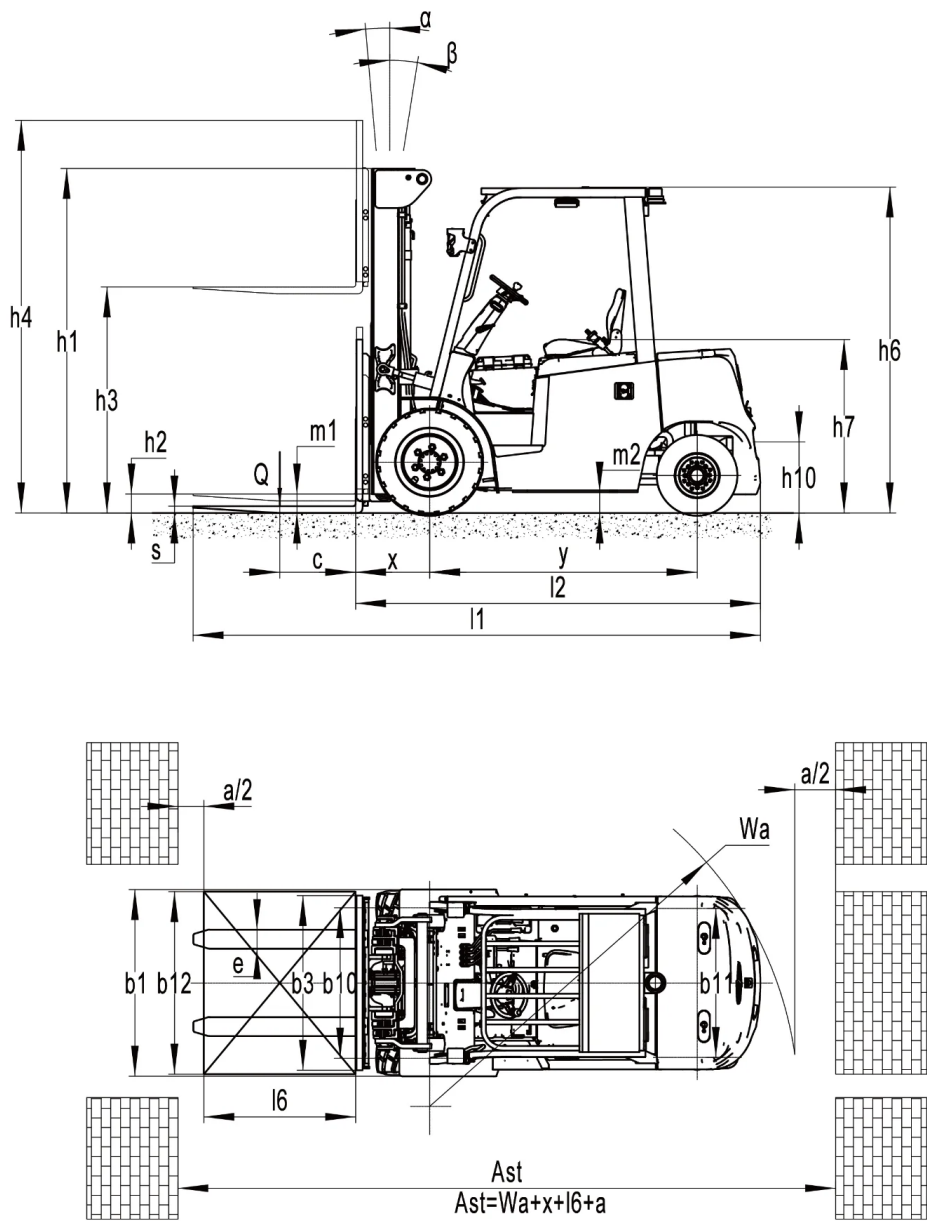
A redesigned operator cabin with a high-visibility mast, LED front lighting, wider brake pedal, and adjustable seat enhances safety and comfort during long operations. Every detail is designed to boost precision, control, and operator satisfaction.

VDI Chart

	SPECIFICATION	REF	UNIT	VALUE
1.1	Manufacturer			EP
1.2	Model designation			EFX4-301
1.3	Drive			Electric
1.4	Operator type			Seated
1.5	Rated capacity	Q	kg	3000
1.6	Load centre distance	c	mm	500
1.8	Load distance, centre of drive axle to fork	x	mm	486
1.9	Wheelbase	y	mm	1760
2.1	Service weight		kg	4378
2.2	Axle loading, laden front/rear		kg	6554/824
2.3	Axle loading, unladen front/rear		kg	1873/2505
3.1	Tyres			Pneumatic
3.2	Tyre size, front		mm	28X9-15-14PR
3.3	Tyre size, rear		mm	6.50-10-10PR
3.5	Wheels, number front/rear (x=drive wheels)			2x/2
3.6	Tread width, front	b ₁₀	mm	989
3.7	Tread width, rear	b ₁₁	mm	980
4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/10
4.2	Height, mast lowered	h ₁	mm	2070
4.3	Free lift	h ₂	mm	130
4.4	Lift	h ₃	mm	3000
4.5	Height, mast extended	h ₄	mm	4130
4.7	Height of overhead guard (cabin)	h ₆	mm	2143
4.8	Seat height relating to SIP/stand height	h ₇	mm	1141
4.12	Coupling height	h ₁₀	mm	468
4.19	Overall length	l ₁	mm	3735
4.20	Length to face of forks	l ₂	mm	2665
4.21	Overall width	b ₁ /b ₂	mm	1228
4.22	Fork dimensions	s/e/l	mm	45×122×1070
4.23	Fork carriage ISO 2328, class/type A, B			3A
4.24	Fork carriage width		mm	1100
4.31	Ground clearance, laden, below mast		mm	125

SPECIFICATION		REF	UNIT	VALUE
4.32	Ground clearance, centre of wheelbase	m ₂	mm	157
4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	4115
4.34.2	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	4315
4.35	Turning radius	Wa	mm	2428
5.1	Travel speed, laden/unladen		km/h	11/12
5.2	Lift speed, laden/unladen		m/s	0.29/0.36
5.3	Lowering speed, laden/unladen		m/s	0.4/0.4
5.8	Max. gradeability, laden/unladen		%	15/15
5.10	Service brake			Hydraulic
5.11	Parking brake			Mechanical
6.1	Drive motor rating S2 60 min		kW	10
6.2	Lift motor rating at S3 15%		kW	16
6.4.1	Battery voltage		V	80
6.4.2	Battery nominal capacity K5		Ah	100
6.4.3	Battery type			Li-Ion
6.5	Battery weight		kg	24.5*3
6.6	Energy consumption according to DIN EN 16796		kWh/h	6.45
6.7	Turnover output according to VDI 2198			180
6.8	Turnover efficiency according to VDI 2198			33.09
8.1	Type of drive unit			PMSM
10.1	Operating pressure for attachments		bar	180
10.2	Oil volume for attachments		ℓ/min	25
10.5	Steering design			Hydraulic
10.7	Sound pressure level at the driver's seat		dB(A)	<74

Subject to modification of specifications and designs without prior notice as part of continuous product improvement. Images and technical data shown may include optional features and are provided for reference only. All dimensions are subject to standard manufacturing tolerances.



Mast Options

MAST TYPE	LIFT HEIGHT (H3, MM)	MAST LOWERED HEIGHT (H1, MM)	MAST EXTENDED HEIGHT, NO BACKREST (H4, MM)	MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM)	FREE LIFT HEIGHT, NO BACKREST (H2, MM)	FREE LIFT HEIGHT, WITH BACKREST (H2, MM)
2-Standard Mast	3000	2065	3665	4130	135	135
2-Standard Mast	3300	2215	3965	4430	135	135
2-Standard Mast	3500	2315	4165	4630	135	135
2-Standard Mast	3600	2365	4265	4730	135	135
2-Standard Mast	4000	2615	4665	5130	135	135
2-Standard Mast	4500	2865	5165	5630	135	135
2-Free Mast	3000	2045	3715	4175	1410	950
2-Free Mast	3300	2195	4015	4475	1560	1100
2-Free Mast	3600	2345	4315	4775	1710	1250
3-Free Mast	4300	2082	5030	5435	1390	985
3-Free Mast	4500	2160	5270	5675	1470	1065
3-Free Mast	4800	2265	5570	5975	1575	1170
3-Free Mast	5000	2350	5720	6125	1660	1255
3-Free Mast	5500	2600	6220	6625	1910	1505
3-Free Mast	6000	2850	6720	7125	2160	1755

Options

ITEM	OPTIONS (optional items marked in yellow)
Fork dimension	122*45*920 122*45*1070 122*45*1150 122*45*1220 122*45*1370 122*45*1500 122*45*1600 122*45*1700 122*45*1820 122*45*1900 122*45*2000 122*45*2200
Front wheel material	Pneumatic Solid Non-marking
Rear wheel material	Pneumatic Solid Non-marking
Battery capacity	80V100AH 80V100AH*2
Charger	80V-60A External charger 80V65A External (for 100AH battery) 80V100A External (for 200AH battery)

ITEM	OPTIONS (optional items marked in yellow)
Charging station	NO single phase (24V30A*3) three phase (24V50A*6)
Battery indicator	With hourmeter Bluetooth without PSE
Seat type	Comfortable with safety belt switch Seat with armrest with safety belt swich
Attachments	Built-in sideshifter External shifter Fork positioner with sideshift
Traction pin	Yes and not customized
Electrostatic chain	Yes and not customized
Front lamp	LED
Rear lamp	No LED
Warning lamp	Yes and not customized
Steering lamp	LED
Blue lamp	No Rear Front and rear
Area warning lamp	No Both sides Both sides and rear
Rearview mirror	One in front Two on sides and one in front
Buzzer	Yes and not customized
OPS system	Yes and not customized
USB interface	Yes and not customized
Telematics	Yes and not customized No
Cabin	No
Overhead guard	No With tempered glass
Turn speed control	No
Heating system during lithium battery charging	No Yes and not customized
Operator identification device	No Card reader device
Hydraulic system operating mode	Mechanical lever
Rear armrest horn	No Yes and not customized
Wiper water unit	No