



EP
Let's grow together

EFL253/303/353(S)

Li-ion counterbalance forklift

2.5/3.0/3.5T **LI-ION**
TECHNOLOGY

- Higher performance for productivity boost
- The truck structure integrates aesthetics and practical design
- Ergonomic improvements for comfortable operation
- Optimized overhead guard for usage of a full cabin
- Lithium technology to replace internal combustion engine

EP EQUIPMENT CO.,LTD
www.ep-ep.com



FEATURE

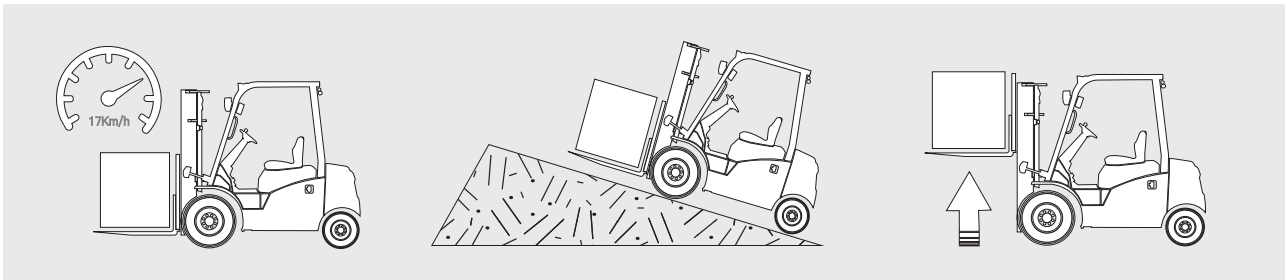
Higher performance for productivity boost

Max travel speed 16/17km/h to cover diverse intralogistics application needs.

Max battery capacity 80V/460Ah and max charging current 200A for longer uptime and fast charging.

Max gradeability 20/25% to deliver better stability on ramps.

Max lifting speed 0.4/0.5m/s for greater efficiency.



The truck structure integrates aesthetics and practical design

Both practicality and beauty are reflected in the design of the new EFL series. It inherits the robust chassis of the T8 IC truck series and features a more streamlined and compact counterweight, to better fit in confined space. Plus, the rain-proofed charging port protects the port from water splash and ensures charging safety.



Lithium technology to replace internal combustion engine

The lithium technology has proven itself as an emission-free and maintenance-free alternative to diesel. The new generation of EFL series handles loads with consistently high performance due to opportunity charging even for the most demanding applications.



■ Multi-functions for safe operation and easy fleet management

The new EFL series is equipped with a variety of functional configurations, such as OPS system, Telematics and card/ fingerprint system, which not only takes security as priority but also reinforce easier fleet management.



OPS system



Card system
(option)



Telematics

■ Ergonomic improvements for comfortable operation

The workspace of the new EFL series is more spacious with a simplified panel and a comfortable pedal. The series features a new LCD display that clearly shows speed, working hours, battery status, mileage and parking status so the operator can easily grasp the truck conditions just with a glance.



New LCD display



Spacious legroom

■ Optimized overhead guard for usage of a full cabin

The brand new overhead guard is bolted, instead of welded, to the truck frame and this is more suitable for usage of a full cabin to cope with all weathers. For flexible strategy, it is easy to install or detach a cabin across different trucks.



Li-ion counterbalance forklift 2.5/3.0/3.5T

EFL253/303/353

Distinguishing mark	1.1	Manufacturer			EP	EP	EP
	1.2	Model designation			EFL253	EFL303	EFL353
	1.3	Drive			Electric	Electric	Electric
	1.4	Operator type			Seated	Seated	Seated
	1.5	Load capacity	Q	kg	2500	3000	3500
	1.6	Load center distance	c	mm	500	500	500
	1.8	Load distance, centre of drive axle to fork	x	mm	495	481	486
	1.9	Wheelbase	y	mm	1740	1740	1740
	2.1	Service weight		kg	3940	4280	4600
Service weight	2.2	Axle loading, laden front/rear		kg	5810/630	6595/685	7395/725
	2.3	Axle loading, unladen front/rear		kg	1880/2060	1900/2380	1890/2710
	3.1	Tyre type			Solidrubber	Solidrubber	Solidrubber
Tyres/chassis	3.2	Tyre size, front			7.00-12	28x9-14	28x9-14
	3.3	Tyre size, rear			18X7-8	18X7-8	18X7-8
	3.5	Wheels, number front/rear (x=drive wheels)		mm	2X-2	2X-2	2X-2
	3.6	Tread width, front	b10	mm	975	1010	1010
	3.7	Tread width, rear	b11	mm	955	955	955
	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/10	6/10	6/10
Dimensions	4.2	Retracted mast height	h1	mm	2090	2070	2070
	4.3	Free lift	h2	mm	120	135	135
	4.4	Lift height	h3	mm	3000	3000	3000
	4.5	Height, mast extended	h4	mm	4025	4095	4095
	4.7	Height of overhead guard (cabin)	h6	mm	2165	2180	2180
	4.8	Seat height/standing height	h7	mm	1095	1110	1110
	4.12	Tow coupling height	h10	mm	330	345	345
	4.19	Overall length	l1	mm	3600	3610	3688
	4.20	Length to face of forks	l2	mm	2530	2540	2618
	4.21	Overall width	b1/b2	mm	1054	1210	1210
	4.22	Fork dimensions	s/e/l	mm	40X122X1070	45X122X1070	50X122X1070
	4.23	A,B Fork carriage class/type A, B			2A	3A	3A
	4.24	Fork carriage width	b3	mm	1040	1100	1100
	4.31	Ground clearance, laden, below mast	m1	mm	125	130	130
	4.32	Ground clearance, center of wheelbase	m2	mm	170	185	185
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	4000	4028	4091
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	4200	4228	4291
	4.35	Turning radius	Wa	mm	2305	2347	2405
Performance data	5.1	Travel speed, laden/unladen		km/h	11/12	11/12	11/12
	5.2	Lifting speed, laden/unladen		m/s	0.29/0.36	0.29/0.36	0.28/0.36
	5.3	Lowering speed, laden/unladen		m/s	0.4/0.43	0.4/0.43	0.4/0.43
	5.5	Drawbar pull, laden/unladen		N	—	—	—
	5.6	Max. drawbar pull, laden/unladen		N	—	—	—
	5.8	Max. gradeability, laden/unladen		%	15/15	15/15	15/15
	5.10	Service brake			Hydraulic	Hydraulic	Hydraulic
	5.11	Parking brake			Mechanical	Mechanical	Mechanical
Electric-engine	6.1	Drive motor rating S2 60 min		kW	10	10	10
	6.2	Lift motor rating at S3 15%		kW	16	16	16
	6.4	Battery voltage/nominal capacity		V/Ah	80V205AH	80V205AH	80V280AH
	6.5	Battery weight		kg	—	—	—
Addition data	8.1	Type of drive control			AC	AC	AC
	10.5	Steering design			Hydraulic	Hydraulic	Hydraulic
	10.7	Sound pressure level at the driver's ear		dB(A)	< 74	< 74	< 74

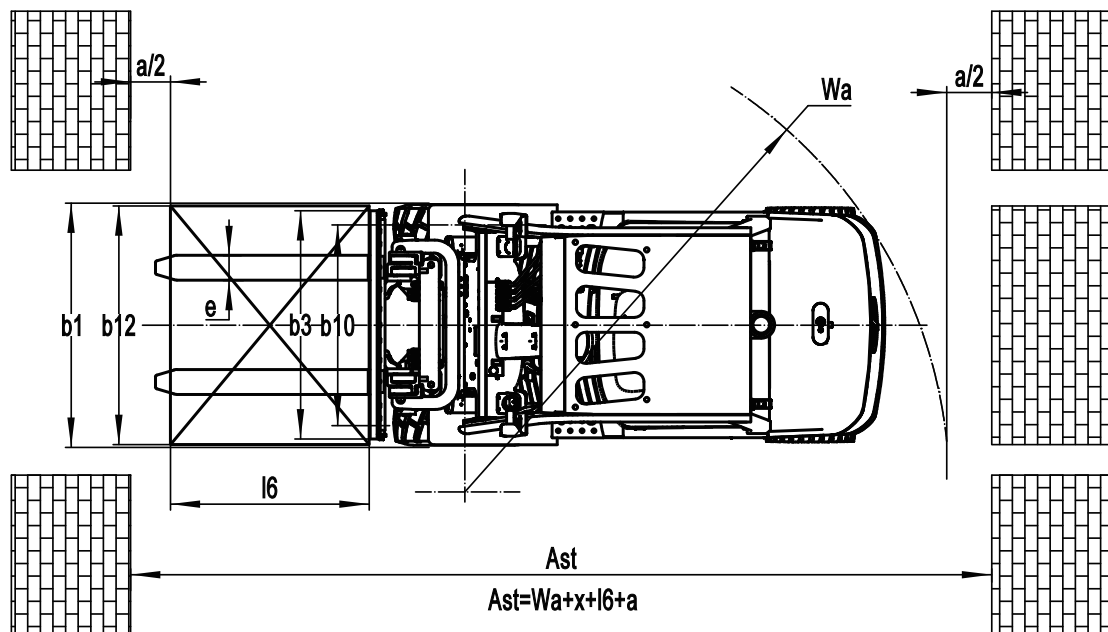
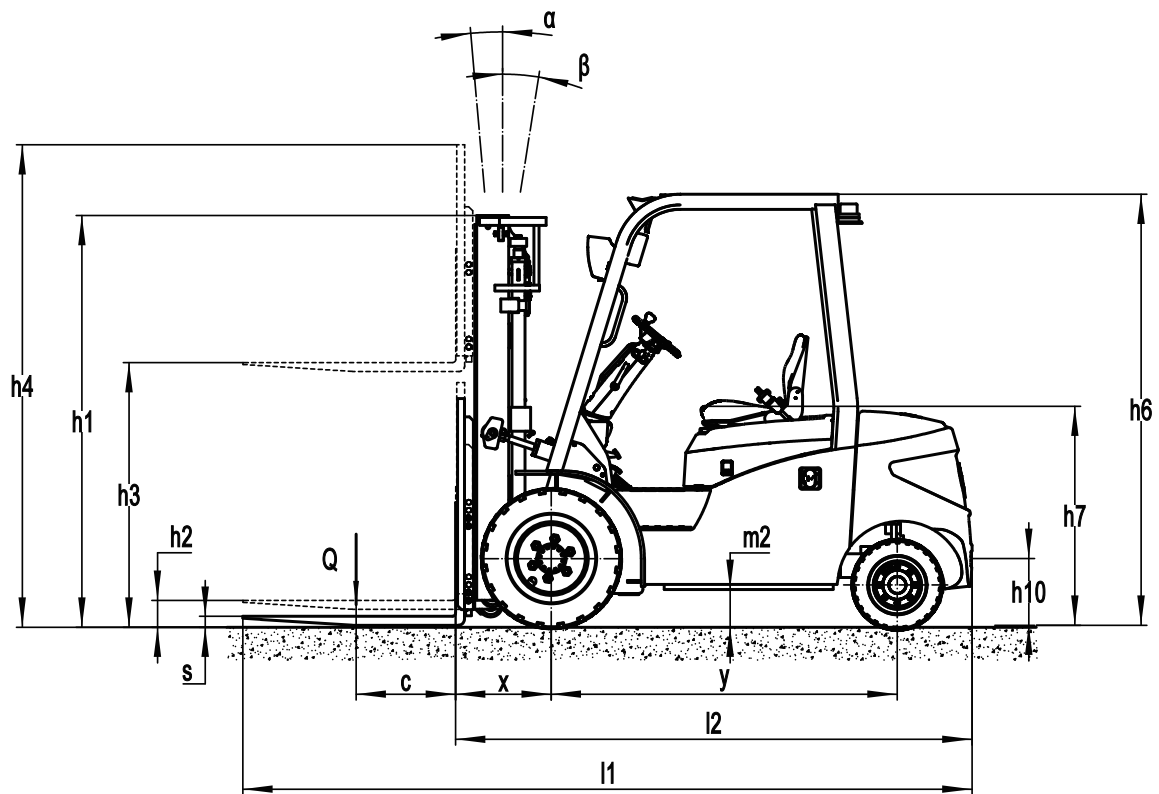
If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.

Li-ion counterbalance forklift 2.5/3.0/3.5T

EFL253S/303S/353S

Distinguishing mark	1.1	Manufacturer			EP	EP	EP
	1.2	Model designation			EFL253S	EFL303S	EFL353S
	1.3	Drive			Electric	Electric	Electric
	1.4	Operator type			Seated	Seated	Seated
	1.5	Load capacity	Q	kg	2500	3000	3500
	1.6	Load center distance	c	mm	500	500	500
	1.8	Load distance, centre of drive axle to fork	x	mm	495	481	486
	1.9	Wheelbase	y	mm	1740	1740	1740
Service weight	2.1	Service weight		kg	3890	4305	4625
	2.2	Axle loading, laden front/rear		kg	5795/660	6575/730	7355/770
	2.3	Axle loading, unladen front/rear		kg	1865/2090	1880/2425	1870/2755
Tyres/chassis	3.1	Tyre type			Solid rubber	Solid rubber	Solid rubber
	3.2	Tyre size, front			7.00-12	28x9-14	28x9-14
	3.3	Tyre size, rear			18X7-8	200/50-10	200/50-10
	3.5	Wheels, number front/rear (x=drive wheels)		mm	2X-2	2X-2	2X-2
	3.6	Tread width, front	b10	mm	975	1010	1010
	3.7	Tread width, rear	b11	mm	955	955	955
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	6/10	6/10	6/10
	4.2	Retracted mast height	h1	mm	2090	2070	2070
	4.3	Free lift	h2	mm	120	135	135
	4.4	Lift height	h3	mm	3000	3000	3000
	4.5	Height, mast extended	h4	mm	4025	4095	4095
	4.7	Height of overhead guard (cabin)	h6	mm	2165	2180	2180
	4.8	Seat height/standing height	h7	mm	1095	1110	1110
	4.12	Tow coupling height	h10	mm	330	345	345
	4.19	Overall length	l1	mm	3600	3610	3688
	4.20	Length to face of forks	l2	mm	2530	2540	2618
	4.21	Overall width	b1/b2	mm	1054	1210	1210
	4.22	Fork dimensions	s/e/l	mm	40X122X1070	45X122X1070	50X122X1070
	4.23	A,B Fork carriage class/type A, B			2A	3A	3A
	4.24	Fork carriage width	b3	mm	1040	1100	1100
	4.31	Ground clearance, laden, below mast	m1	mm	125	130	130
	4.32	Ground clearance, center of wheelbase	m2	mm	170	185	185
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	4000	4028	4091
	4.34.2	Aisle width for pallets 800×1200 lengthways	Ast	mm	4200	4228	4291
	4.35	Turning radius	Wa	mm	2305	2347	2405
Performance data	5.1	Travel speed, laden/unladen		km/h	16/17	16/17	16/17
	5.2	Lifting speed, laden/unladen		m/s	0.4/0.5	0.4/0.5	0.4/0.5
	5.3	Lowering speed, laden/unladen		m/s	0.4/0.43	0.4/0.43	0.4/0.43
	5.5	Drawbar pull, laden/unladen		N	—	—	—
	5.6	Max. drawbar pull, laden/unladen		N	—	—	—
	5.8	Max. gradeability, laden/unladen		%	20/25	20/25	18/25
	5.10	Service brake			Hydraulic	Hydraulic	Hydraulic
	5.11	Parking brake			Mechanical	Mechanical	Mechanical
Electric-engine	6.1	Drive motor rating S2 60 min		kW	16	16	16
	6.2	Lift motor rating at S3 15%		kW	24	24	24
	6.4	Battery voltage/nominal capacity		V/Ah	80V230AH	80V230AH	80V280AH
	6.5	Battery weight		kg	—	—	—
Addition data	8.1	Type of drive control			AC	AC	AC
	10.5	Steering design			Hydraulic	Hydraulic	Hydraulic
	10.7	Sound pressure level at the driver's ear		dB(A)	< 74	< 74	< 74

If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.



Mast Option

EFL253

Mast types	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No backrest	With backrest
			No backrest	With backrest		
	mm	mm	mm	mm	mm	mm
2-Standard Mast	3000	2075	3565	4025	140	140
	3300	2225	3865	4325	140	140
	3600	2375	4165	4625	140	140
	4000	2625	4565	5025	140	140
2-Free Mast	3000	2035	3565	4025	1470	1000
	3300	2185	3865	4325	1620	1150
3-Free Mast	4300	2035	4865	5325	1470	1000
	4500	2115	5065	5525	1550	1080
	4800	2220	5365	5825	1655	1185
	5000	2305	5565	6025	1740	1270
	5500	2555	6065	6525	1990	1520
	6000	2805	6565	7025	2240	1770

EFL303/353

Mast types	Lift height (h3)	Height, Mast			Height,Free lift(h2)	
		Height, mast lowered(h1)	Height, mast extended(h4)		No shelving	With shelving
			No shelving	With shelving		
	mm	mm	mm	mm	mm	mm
2-Standard Mast	2700	1910	3330	3795	120	120
	3000	2060	3630	4095	120	120
	3300	2210	3930	4395	120	120
	3500	2310	4130	4595	120	120
	3600	2360	4230	4695	120	120
	4000	2610	4630	5095	120	120
	4300	2760	4930	5395	120	120
	4500	2860	5130	5595	120	120
2-Free Mast	3000	2040	3630	4095	1410	945
	3300	2190	3930	4395	1560	1095
	3600	2340	4230	4695	1710	1245
3-Free Mast	4300	2040	4930	5395	1410	945
	4500	2120	5130	5595	1490	1025
	4800	2190	5430	5895	1560	1095
	5000	2310	5630	6095	1680	1215
	5500	2560	6130	6595	1930	1465
	6000	2810	6630	7095	2180	1715

Option

No.	Optional items	EFL253	EFL253S
1.1	Fork dimension	○122*40*920 ○122*40*1070 ○122*40*1150 ○122*40*1220 ○122*40*1370 ○122*40*1500 ○122*40*1600 ○122*40*1700 ○122*40*1820 ○122*40*1900 ○122*40*2000 ○122*40*2200	○122*40*920 ○122*40*1070 ○122*40*1150 ○122*40*1220 ○122*40*1370 ○122*40*1500 ○122*40*1600 ○122*40*1700 ○122*40*1820 ○122*40*1900 ○122*40*2000 ○122*40*2200
1.4	Fork carriage width	●1040mm ○Yes and can be customized	●1040mm ○Yes and can be customized
1.5	Fork carriage height	●1025mm ○Yes and can be customized	●1025mm ○Yes and can be customized
2.5	Front wheel material	○Pneumatic○Solid ○Non-marking	○Pneumatic○Solid ○Non-marking
2.6	Rear wheel material	○Pneumatic○Solid ○Non-marking	○Pneumatic○Solid ○Non-marking
2.7	Battery capacity	○80V205AH○80V280AH○80V410AH	○80V230AH○80V460AH
2.8	Charger	○80V35A○80V65A○80V130A ○80V200A (only for 410Ah battery) ○80V35A (internal)○80V60A (internal)	○80V35A○80V65A○80V130A ○80V200A (only for 460Ah battery)
2.9	Battery indicator	●With time	
2.10	Seat type	○Regular ○Premium ○Suspension ○Suspension + seatbelt logic switch	
2.11	Attachments	●No ○Built-in sideshifter ○External shifter ○Fork positioner	
2.13	Traction pin	●Yes	
3.5	Front lamp	●LED	
3.6	Rear lamp	●No ○LED	
3.7	Warning lamp	●Yes	
3.8	Steering lamp	●Yes	
3.9	Blue lamp	●No○2 front○1 rear○2 front + 1 rear	
3.10	Area warning lamp	●No ○1 left + 1 right (red)	
3.11	Rearview mirror	●1 in the middle ○Add 1 on both sides	
3.12	Buzzer	●Yes	
3.17	OPS system	●Yes	
3.23	Telematics	●Yes and not customized	
4.3	Cabin	●No ○Basic semi-enclosed cabin ○Upgrade semi-enclosed cabin ○Full cabin	
4.9	Heater	●No ○Yes and not customized	
Note: ●Standard ○ Optional - Inconformity			

Option

No.	Optional items	EFL303	EFL303(S)
1.1	Fork dimension	○122*45*1070 ○122*45*1150 ○122*45*1220 ○122*45*1370 ○122*45*1520 ○122*45*1600 ○122*45*1700 ○122*45*1820 ○122*45*2000 ○122*45*2200 ○122*45*2400	○122*45*1070 ○122*45*1150 ○122*45*1220 ○122*45*1370 ○122*45*1520 ○122*45*1600 ○122*45*1700 ○122*45*1820 ○122*45*2000 ○122*45*2200 ○122*45*2400
1.4	Fork carriage width	●1100mm ○Yes and can be customized	●1100mm ○Yes and can be customized
1.5	Fork carriage height	●1095mm ○Yes and can be customized	●1095mm ○Yes and can be customized
2.5	Front wheel material	○Pneumatic○Solid ○Non-marking	○Pneumatic○Solid ○Non-marking
2.6	Rear wheel material	○Pneumatic○Solid ○Non-marking	○Pneumatic○Solid ○Non-marking
2.7	Battery capacity	○80V205AH○80V280AH○80V410AH	○80V230AH○80V460AH
2.8	Charger	○80V35A○80V65A○80V130A ○80V200A (only for 410Ah battery) ○80V35A (internal)○80V60A (internal)	○80V65A○80V35A○80V130A ○80V200A (only for 460Ah battery)
2.9	Battery indicator	●With time	
2.10	Seat type	○Regular ○Premium ○Suspension ○Suspension + seatbelt logic switch	
2.11	Attachments	●No ○Built-in sideshifter ○External shifter ○Fork positioner	
2.13	Traction pin	●Yes	
3.5	Front lamp	●LED	
3.6	Rear lamp	●No ○LED	
3.7	Warning lamp	●Yes	
3.8	Steering lamp	●Yes	
3.9	Blue lamp	●No○2 front○1 rear○2 front + 1 rear	
3.10	Area warning lamp	●No ○1 left + 1 right (red)	
3.11	Rearview mirror	●1 in the middle ○Add 1 on both sides	
3.12	Buzzer	●Yes	
3.17	OPS system	●Yes	
3.23	Telematics	●Yes and not customized	
4.3	Cabin	●No ○Basic semi-enclosed cabin ○Upgrade semi-enclosed cabin ○Full cabin	
4.9	Heater	●No ○Yes and not customized	
Note: ●Standard ○ Optional - Inconformity			

Option

No.	Optional items	EFL353	EFL353(S)
1.1	Fork dimension	○122*50*1070 ○122*50*1150 ○122*50*1220 ○122*50*1370 ○122*50*1520 ○122*50*1600 ○122*50*1700 ○122*50*1820 ○122*50*2000 ○122*50*2200 ○122*50*2420	○122*50*1070 ○122*50*1150 ○122*50*1220 ○122*50*1370 ○122*50*1520 ○122*50*1600 ○122*50*1700 ○122*50*1820 ○122*50*2000 ○122*50*2200 ○122*50*2420
1.4	Fork carriage width	●1100mm ○Yes and can be customized	●1100mm ○Yes and can be customized
1.5	Fork carriage height	●1095mm ○Yes and can be customized	●1095mm ○Yes and can be customized
2.5	Front wheel material	○Pneumatic○Solid ○Non-marking	○Pneumatic○Solid ○Non-marking
2.6	Rear wheel material	○Pneumatic○Solid ○Non-marking	○Pneumatic○Solid ○Non-marking
2.7	Battery capacity	○80V280AH○80V410AH	○80V280AH○80V460AH
2.8	Charger	○80V35A○80V65A○80V130A ○80V200A (only for 410Ah battery) ○80V35A (internal)○80V60A (internal)	○80V65A○80V35A○80V130A ○80V200A (only for 460Ah battery)
2.9	Battery indicator	●With time	
2.10	Seat type	○Regular ○Premium ○Suspension ○Suspension + seatbelt logic switch	
2.11	Attachments	●No ○Built-in sideshifter ○External shifter ○Fork positioner	
2.13	Traction pin	●Yes	
3.5	Front lamp	●LED	
3.6	Rear lamp	●No ○LED	
3.7	Warning lamp	●Yes	
3.8	Steering lamp	●Yes	
3.9	Blue lamp	●No○2 front○1 rear○2 front + 1 rear	
3.10	Area warning lamp	●No ○1 left + 1 right (red)	
3.11	Rearview mirror	●1 in the middle ○Add 1 on both sides	
3.12	Buzzer	●Yes	
3.17	OPS system	●Yes	
3.23	Telematics	●Yes and not customized	
4.3	Cabin	●No ○Basic semi-enclosed cabin ○Upgrade semi-enclosed cabin ○Full cabin	
4.9	Heater	●No ○Yes and not customized	
Note: ●Standard ○ Optional - Inconformity			