# 4-Wheel Pneumatic Forklift 5,000lbs to 7,000lbs

EFL253S/303S/353S





- 80V system using EP Energy's 460Ah Lithium battery and powerful AC Drive Motors
- Ergonomic design with ample cabin space, adjustable steering, and suspension seat
- Available with enclosed cabin, AC, and heat for comfort in hot and cold environments
- Available with both onboard charging capabilities and external chargers up to 200A

Manufacturer			EP	EP	EP
Model designation			EFL253S	EFL303S	EFL353S
Drive			Electric	Electric	Electric
Base capacity	Q	lb.	5000	6000	7000
Load center distance	С	in.	24	24	24
Service weight		lb.	9520	10290	10996
Collapsed height	h1	in.	87.4	86.20	86.20
Maximum fork height	h3	in.	189	189	118.11
Height, mast extended with Std. LBR	h4	in.	229.3	232.1	232.1
Length to face of forks	12	in.	99.61	100.00	103.07
Overall width	b1/b2	in.	45.43	47.64	47.64
Fork dimensions	s/e/l	in.	1.57x4.8x42.12	1.77x4.8x42.12	1.97x4.8x42.12
Turning radius	Wa	in.	90.75	92.4	94.68
Travel speed, loaded/unloaded		mph	9.9/10.5	9.9/10.5	9.9/10.5
Lifting speed, loaded/unloaded		fpm	78.74/98.43	78.74/98.43	78.74/98.43
Lowering speed, loaded/unloaded		fpm	84.65/86.61	84.65/86.61	84.65/86.61
Max. gradeability, loaded/unloaded		%	20/25	20/25	18/25
Drive motor rating S2 60 min		kW	17	17	17
Battery voltage/nominal capacity		V/Ah	80V460Ah	80V460Ah	80V460Ah

### ■ Features

### Higher performance for productivity boost

Max travel speed 9.9/10.5mph 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 84.65/86.61fpm for greater efficiency



### Lithium technology to replace internal combustion engine

Lithium technology has proven itself as an emission and maintenance free alternative to internal combustion. The EFL Series features an 80v system with capacities up to 460Ah and a wide range of on-board and external chargers up to 200A.



### ■ Ergonomic Design

The EFL features spacious legroom, simplified instrumentation, and a new LED display that clearly indicates speed, state-of-charge, machine hours and other operator information.



### Designed with the operator in mind

Our bolted overhead guard features a covered top using tempered glass and high-strength steel to maximize visibility. Outdoor comfort is enhanced with optional front windshield, semi-cab, full cabin, heater, or heater and A/C. For added flexibility, the front windshield and semi cab is available as a retrofit kit for in-field units.









# 4-wheel pneumatic forklift 5,000lbs

# EFL253S

	1.1	Manufacturer			EP	EP
Distinguishing mark	1.2	Model designation			EFL253S	EFL253S
	1.3	Drive			Electric	Electric
	1.4	Operator type			Seated	Seated
	1.5	Base capacity	Q	lb.	5000	5000
iting	1.6	Load center distance	С	in.	24	24
iğ	1.8	Load distance, center of drive axle to fork	х	in.	19.49	19.49
	1.9	Wheelbase	у	in.	68.50	68.50
ي ب	2.1	Service weight		lb.	9520	9570
Service weight	2.2	Axle loading, loaded front/rear		lb.	12665/1855	12690/1880
% ≥	2.3	Axle loading, unloaded front/rear		lb.	4510/5010	4535/5035
	3.1	Tire type			Solidrubber	Solidrubber
. <u>s</u>	3.2	Tire size, front			7.00-12	7.00-12
Tires/chassis	3.3	Tire size, rear			18X7-8	18X7-8
p/se	3.5	Wheels, number front/rear (x=drive wheels)		in.	2x/2	2x/2
ı≝	3.6	Tread width, front	b <sub>10</sub>	in.	38.39	38.39
	3.7	Tread width, rear	b11	in.	37.60	37.60
	4.1	Tilt of mast/fork carriage forward/backward	α/β	۰	6/10	6/10
	4.2	Collapsed Height	h <sub>1</sub>	in.	87.4	90.7
	4.3	Free lift	$h_2$	in.	47	50.4
	4.4	Maximum fork height	h₃	in.	189	197
	4.5	Height, mast extended with Std. LBR	h₄	in.	229.3	237.2
	4.7	Height of overhead guard (cabin)	h <sub>6</sub>	in.	85.24	85.24
	4.8	Seat height/standing height	h <sub>7</sub>	in.	43.11	43.11
	4.12	Tow coupling height	h10	in.	12.99	12.99
suc	4.19	Overall length	l <sub>1</sub>	in.	141.73	141.73
insic	4.20	Length to face of forks	<b>l</b> <sub>2</sub>	in.	99.61	99.61
Dimensions	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	in.	45.43	45.43
	4.22	Fork dimensions	s×e×l	in.	1.57x4.8x42.12	1.57x4.8x42.12
	4.23	A,B Fork carriage class/type A, B			2A	2A
	4.24	Fork carriage width	b <sub>3</sub>	in.	40.94	40.94
	4.31	Ground clearance, loaded, below mast	mı	in.	4.92	4.92
	4.32	Ground clearance, center of wheelbase	m <sub>2</sub>	in.	6.69	6.69
	4.34.1	Right Angle Stack (x +wa)	Ast	in.	110.24	110.24
	4.34.2	Minimum Aisle Width (Right Angle Stack + Load Length + Clearance)	Ast	in.	170.24	170.24
	4.35	Turning radius	Wa	in.	90.75	90.75
	5.1	Travel speed, loaded/unloaded		mph	9.9/10.5	9.9/10.5
data	5.2	Lifting speed, loaded/unloaded		fpm	78.74/98.43	78.74/98.43
၁ ၅၁	5.3	Lowering speed, loaded/unloaded		fpm	84.65/86.61	84.65/86.61
Performance data	5.8	Max. gradeability, loaded/unloaded		%	20/25	20/25
-f	5.10	Service brake			Hydraulic	Hydraulic
B.	5.11	Parking brake			Mechanical	Mechanical
	6.1	Drive motor rating S2 60 min		HP	17	17
i e	6.2	Lift motor rating at S3 15%		kW	26	26
Electric- engine	6.4	Battery voltage/nominal capacity		V/Ah	80V230Ah / 80V460Ah	80V230Ah / 80V460Ah
ш	6.5	Minimum battery weight		lb.	597	597
	8.1	Type of drive control			AC	AC
onal	10.5	Steering design			Hydraulic	Hydraulic
Additional data	10.7	Sound pressure level at the driver's ear		dB(A)	< 74	< 74
Y V	15.1	Charger output current		Α	15, 35, 100, 155, 200	15, 35, 100, 155, 200
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If there are improvements of technical parameters or configurations, no further notice will be given. The diagram shown may contain non-standard configurations.

Minimum Aisle Width uses 48" for load length and 12" for Clearance.

### 4-wheel pneumatic forklift 6,000lbs

# **EFL303S**

	1.1	Manufacturer			EP	EP
~	1.2	Model designation			EFL303S	EFL303S
mar	1.3	Drive			Electric	Electric
Distinguishing mark	1.4	Operator type			Seated	Seated
	1.5	Base capacity	Q	lb.	6000	6000
	1.6	Load center distance	С	in.	24	24
Dist	1.8	Load distance, center of drive axle to fork	x	in.	18.94	18.94
	1.9	Wheelbase	у	in.	68.50	68.50
	2.1	Service weight	,	lb.	10290	10340
Service weight	2.2	Axle loading, loaded front/rear		lb.	14280/2010	14305/2035
Ser wei	2.3	Axle loading, included front/rear		lb.	4544/5746	4569/5771
	3.1			ID.	Solidrubber	Solidrubber
(0		Tire type			28X9-15	28X9-15
Tires/chassis	3.2	Tire size, front				
/ch	3.3	Tire size, rear			200/50-10	200/50-10
ires	3.5	Wheels, number front/rear (x=drive wheels)		in.	2x/2	2x/2
-	3.6	Tread width, front	b <sub>10</sub>	in.	39.76	39.76
	3.7	Tread width, rear	b <sub>11</sub>	in.	37.60	37.60
	4.1	Tilt of mast/fork carriage forward/backward	α/β	٥	6/10	6/10
	4.2	Collapsed Height	hı	in.	86.2	90.9
	4.3	Free lift	h <sub>2</sub>	in.	43.1	47.8
	4.4	Maximum fork height	h₃	in.	189	197
	4.5	Height, mast extended with Std. LBR	h₄	in.	232.1	240
	4.7	Height of overhead guard (cabin)	h <sub>6</sub>	in.	85.83	85.83
	4.8	Seat height/standing height	h <sub>7</sub>	in.	43.70	43.70
<i>(</i> 0	4.12	Tow coupling height	h10	in.	13.58	13.58
Dimensions	4.19	Overall length	h	in.	142.13	142.13
sueu	4.20	Length to face of forks	l <sub>2</sub>	in.	100.00	100.00
Dig.	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	in.	47.64	47.64
	4.22	Fork dimensions	s×e×l	in.	1.77x4.8x42.12	1.77x4.8x42.12
	4.23	A,B Fork carriage class/type A, B			3A	3A
	4.24	Fork carriage width	b₃	in.	43.31	43.31
	4.31	Ground clearance, loaded,below mast	m <sub>1</sub>	in.	5.12	5.12
	4.32	Ground clearance, center of wheelbase	m <sub>2</sub>	in.	7.28	7.28
	4.34.1	Right Angle Stack (x +wa)	Ast	in.	111.34	111.34
	4.34.2	Minimum Aisle Width (Right Angle Stack + Load Length + Clearance)	Ast	in.	171.34	171.34
	4.35	Turning radius	Wa	in.	92.40	92.40
Œ.	5.1	Travel speed, loaded/unloaded		mph	9.9/10.5	9.9/10.5
data	5.2	Lifting speed, loaded/unloaded		fpm	78.74/98.43	78.74/98.43
eor e	5.3	Lowering speed, loaded/unloaded		fpm	84.65/86.61	84.65/86.61
Performance	5.8	Max. gradeability, loaded/unloaded		%	20/25	20/25
ron -	5.10	Service brake			Hydraulic	Hydraulic
g	5.11	Parking brake			Mechanical	Mechanical
	6.1	Drive motor rating S2 60 min		kW	17	17
e e	6.2	Lift motor rating at S3 15%		kW	34.87	26
Electric- engine	6.4	Battery voltage/nominal capacity		V/Ah	80V230Ah / 80V460Ah	80V230Ah / 80V460Ah
п	6.5	Minimum battery weight		lb.	597	597
	8.1	Type of drive control		i.J.	AC	AC
nal _	10.5	Steering design			Hydraulic	Hydraulic
	10.5	oteering design			riyuraulic	riyuraulic
Additional data	10.7	Sound pressure level at the driver's ear		dB(A)	< 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.

Minimum Aisle Width uses 48" for load length and 12" for Clearance.

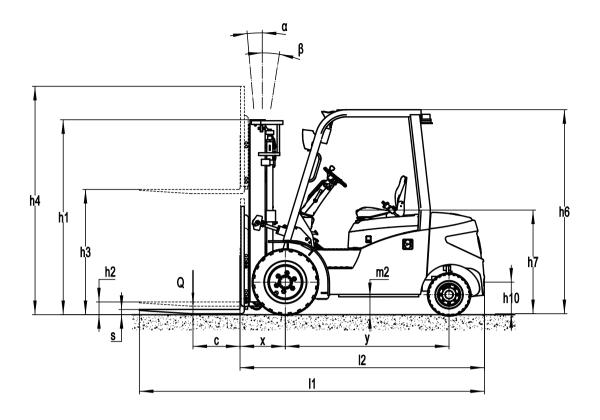
## 4-wheel pneumatic forklift 7,000lbs

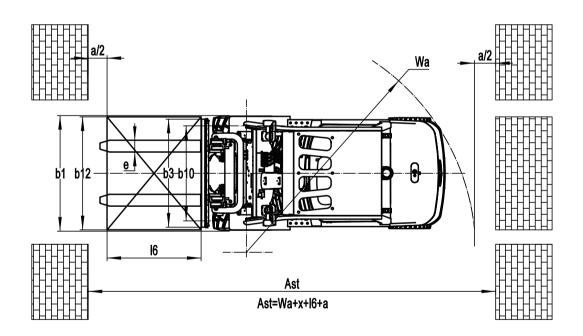
### **EFL353S**

	1.1	Manufacturer			EP	EP
Distinguishing mark	1.2	Model designation			EFL353S	EFL353S
	1.3	Drive			Electric	Electric
	1.4	Operator type			Seated	Seated
	1.5	Base capacity	Q	lb.	7000	7000
ingt.	1.6	Load center distance	c	in.	24	24
Dist	1.8	Load distance, center of drive axle to fork	x	in.	19.13	19.13
	1.9	Wheelbase	y	in.	68.50	68.50
	2.1	Service weight	У	lb.	10996	11046
vice ight	2.2	Axle loading, loaded front/rear		lb.	15925/2101	15950/2126
Service weight	2.3	Axle loading, included front/rear		lb.	4522/6474	4547/6499
	3.1	Tire type		ID.	Solidrubber	Solidrubber
φ.	3.1				28X9-15	28X9-15
assi		Tire size, front				
/ch	3.3	Tire size, rear		i	200/50-10	200/50-10 2x/2
Tires/chassis	3.5	Wheels, number front/rear (x=drive wheels)		in.	2x/2	
F -	3.6	Tread width, front	b <sub>10</sub>	in.	39.76	39.76
	3.7	Tread width, rear	b11	in.	37.60	37.60
_	4.1	Tilt of mast/fork carriage forward/backward	α/β		6/10	6/10
	4.2	Collapsed Height	hı	in.	86.2	90.9
_	4.3	Free lift	h <sub>2</sub>	in.	43.1	47.8
	4.4	Maximum fork height	h₃	in.	189	197
	4.5	Height, mast extended with Std. LBR	h₄	in.	232.1	240
	4.7	Height of overhead guard (cabin)	h <sub>6</sub>	in.	85.83	85.83
	4.8	Seat height/standing height	h <sub>7</sub>	in.	43.70	43.70
φ.	4.12	Tow coupling height	h10	in.	13.58	13.58
Dimensions	4.19	Overall length	lı	in.	145.20	145.20
	4.20	Length to face of forks	12	in.	103.07	103.07
ig	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	in.	47.64	47.64
	4.22	Fork dimensions	s×e×l	in.	1.97x4.8x42.12	1.97x4.8x42.12
	4.23	A,B Fork carriage class/type A, B			3A	3A
	4.24	Fork carriage width	b₃	in.	43.31	43.31
	4.31	Ground clearance, loaded, below mast	m <sub>1</sub>	in.	5.12	5.12
	4.32	Ground clearance, center of wheelbase	m₂	in.	7.28	7.28
	4.34.1	Right Angle Stack (x +wa)	Ast	in.	113.81	113.81
	4.34.2	Minimum Aisle Width (Right Angle Stack + Load Length + Clearance)	Ast	in.	173.81	173.81
	4.35	Turning radius	Wa	in.	94.68	94.68
io	5.1	Travel speed, loaded/unloaded		mph	9.9/10.5	9.9/10.5
dat	5.2	Lifting speed, loaded/unloaded		fpm	78.74/98.43	78.74/98.43
auce	5.3	Lowering speed, loaded/unloaded		fpm	84.65/86.61	84.65/86.61
rma	5.8	Max. gradeability, loaded/unloaded		%	18/25	18/25
Performance data	5.10	Service brake			Hydraulic	Hydraulic
- □	5.11	Parking brake			Mechanical	Mechanical
	6.1	Drive motor rating S2 60 min		kW	17	17
tric	6.2	Lift motor rating at S3 15%		kW	26	26
Electric- engine	6.4	Battery voltage/nominal capacity		V/Ah	80V230Ah / 80V460Ah	80V230Ah / 80V460Ah
	6.5	Minimum battery weight		lb.	597	597
=	8.1	Type of drive control			AC	AC
iona	10.5	Steering design			Hydraulic	Hydraulic
Additional data	10.7	Sound pressure level at the driver's ear		dB(A)	< 74	< 74
4	15.1	Charger output current		Α	15, 35, 100, 155, 200	15, 35, 100, 155, 200

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

Minimum Aisle Width uses 48" for load length and 12" for Clearance.





# Mast Options

### EFL253S

Mast types	Mariana		Mast Dimensions	Free lift(h2)			
	Maximum Fork Height ( h3 )	Callanand	Extended	Height(h4)	No LBR	W/ STD. LBR	
		Collapsed Height(h1)	No LBR	W/ STD. LBR	NO LBR		
	in.	in.	in.	in.	in.	in.	
2.5-	0.5	189.0	87.4	211.2	229.3	65.2	47.0
3-Free Mast	197.0	90.7	219.1	237.2	68.5	50.4	

### EFL303S-353S

Mast types	Mariana		Mast Dimensions	Free lift(h2)		
	Maximum Fork Height ( h3 )	Collapsed	Extended	Height(h4)	No LBR	W/ STD. LBR
		Collapsed Height(h1)	No LBR	W/ STD. LBR	NO EDIT	
	in.	in.	in.	in.	in.	in.
3-Free Mast	189.0	86.2	213.8	232.1	61.4	43.1
	197.0	90.9	221.7	240.0	66.1	47.8