FE4P25Q-35Q

Product Introduction

- The FE4P25Q-35Q is a cost-effective electric forklift with combination of the traditional Internal Combustion forklift and lithium-iron powered
 electric forklift, it has the characteristics of large driving space and comfortable operation. The standard configuration is lithium iron phosphate
 (LFP) battery with efficient fast charging. Optional different battery capacities: the standard configuration is 80V200Ah, optional 80V300Ah and
 400Ah.
- Standard full AC control system and optional fleet management system. Standard REMA/Anderson connection for charging, optional automotive type intelligent plug-in high frequency charging technology.
- The truck adopt similar design of the Internal Combustion forklift with spacious operation space and comfort. The mast system, front and rear axles as well as the the durability of chassis is similar to traditional Internal Combustion forklift. The truck combined the durability of Internal Combustion forklift with layout advantage of Li-iron electric forklift, so that the truck's weight is light and gravity center is optimized, therefore the overall energy consumption is effectively improved.



Excellent Design and Performance



Lifting Motor located in high position so the truck can work in applications where there are water on the ground.



Integrally forged Integrated steering axle, with shock mitigation system with excellent driving comfort and prolongs the service life.



Ergonomically designed LED display with large screen and great visibility for easy control and operation with all around truck status information.



Big diameter tyres with better performance for outdoor applications, and comfortable driving experience, optional to have solid tyres.





Drive system uses a horizontal fan-shaped drive axle arranged in parallel with a large transmission ratio. The battery is located at the bottom of chassis, the truck has good stability. Drive motor uses AC maintenance-free motor. Long wheelbase(1700mm)design, better stability.

Standard Lithium power, high efficiency

| Q Series Forklift Lithium battery option (LFP) | | | | | | |
|--|----------|-----------|--|--|--|--|
| Model | Standard | Optional | | | | |
| FE4P25—28Q | 200Ah | 300/400Ah | | | | |
| FE4P30Q | 200Ah | 300/400Ah | | | | |
| FE4P35Q | 300Ah | 400Ah | | | | |





All lithium-iron batteries are equipped built-in battery management system(BMS) that manages all important data during charging and discharging.

The management of the battery by BMS can ensure the safety of the battery throughout its life cycle. Lithium-iron battery



Fast charging with battery fully charged in 2-3 hours. The intelligent high frequency charger with automobile charging technology has a working efficiency of more than 95%, which is much higher than the 80% working efficiency of traditional low frequency charger.



Optional: automotive type intelligent plug-in charging gun with high frequency charging technology. Note: press the "stop" button of the charger before pulling the gun.



Standard: REMA/Anderson plugin.



FAST CHARGING

Charge your battery whenever and wherever you need

• The unique fast-charging feature of lithium battery makes it an ideal choice for multi-shift work. Comparing with traditional lead-acid battery, it is no longer needed to change batteries among shifts, or prepare stand-by battery and special charging area for Li-ion powered trucks. Fast charging allows charging at interval from operations which extends greatly the working time of truck. In addition, lithium battery has no memory of charging cycles which will not affect the life time at all. The lithium charger is no longer required to be placed in a specified area due to the environment-friendly feature of lithium battery, which brings much higher flexibility.

| FE4P25Q—35Q | | | | | | |
|--------------------------------------|---|--|--|--|--|--|
| Workable for Models | Standard | | | | | |
| Nominal Battery Capacity | 200/300/400Ah | | | | | |
| Voltage | 80V | | | | | |
| Cell Chemistry | Lithium/Iron Phosphate | | | | | |
| Operating Temperatue | -20 °C ~+55 °C | | | | | |
| Optional Charger | 80V /65A(80V/100A/150A/200A) | | | | | |
| Charging time | 2-3H | | | | | |
| Operating Temperature for charger | 0°C~55°C -20°C~55°C (With auxiliary heating function) | | | | | |

1. Lithium battery

Lead acid hattery in productivity
 Lead acid hattery in life cycle
 Lead acid battery in total value

MOBLELIFT Lithium battery forklift

Electric Cost

Maintenance Cost





ENVIRONMENT-FRIENFLY

High cost performance

- The Lithium battery is more environment-friendly. There is no acid evaporation, odor and
 pollution during the charging process. The operation of Li-ion powered trucks are relatively
 quiet and zero carbon dioxide emissions. Therefore, Li-ion powered trucks is an ideal plan for
 the industry that has environment concern, such as food processing, chemical and
 pharmaceutical industry.
- Each lithium truck requires only one battery attributing to its fast charging feature no matter how many work shifts. Life time of lithium battery is three times that of lead acid battery. The maintenance-free feature of lithium battery gives much higher cost performance than lead-acid battery.

SAFETY

Efficient, Maintenance-free

- Lithium battery reduces 35% energy consumption, requires no specified charging area and
 exempts from cost for battery maintenance. It saves space, requires no device to be taken out
 of truck as well as additional ventilation and liquid filling device.
- The power lithium battery system is composed of high-safety high-density lithium iron phosphate battery, intelligent battery management system (BMS), thermal management system, and automotive-grade DC high-voltage control system. BMS enables the communication network between the power lithium battery and controller, the truck itself, the charger and the remote management platform, real-time detection of the status of the lithium battery, the operating state of the truck and the charging state, so as to maximize the safety and reliability of lithium batteries.

| Mast Table | Commission of the Commission o | - | | | _ | | | | | | AND DESCRIPTIONS | ENTERNA DE |
|---|--|---------|-----------|---------|--------------------|---------|----------------------|---------|-----------------------|---------|---|------------|
| Designtion | Lift | height | Free Lift | | Closed mast height | | Extended mast height | | Tilt forward backward | | Capacity table(kg) C=500m without sideshift. | |
| | h3 (mm) | | h2 (mm) | | hl (mm) | | h4 (mm) | | α/β(°) | | single pneumatic tyres | |
| | FE4P25Q | FE4P28Q | FE4P25Q | FE4P28Q | FE4P25Q | FE4P28Q | FE4P25Q | FE4P28Q | FE4P25Q | FE4P28Q | FE4P25Q | FE4P28Q |
| | 2000 | 2000 | 135 | 135 | 1570 | 1570 | 2974 | 3079 | 6/10 | 6/10 | 2500 | 2800 |
| | 2500 | 2500 | 135 | 135 | 1820 | 1820 | 3474 | 3579 | 6/10 | 6/10 | 2500 | 2800 |
| | 3000 | 3000 | 135 | 135 | 2070 | 2070 | 3974 | 4079 | 6/10 | 6/10 | 2500 | 2800 |
| | 3300 | 3300 | 135 | 135 | 2220 | 2220 | 4274 | 4379 | 6/10 | 6/10 | 2500 | 2800 |
| n n | 3500 | 3500 | 135 | 135 | 2320 | 2320 | 4474 | 4579 | 6/10 | 6/10 | 2500 | 2700 |
| TwoUstageUZT | 3600 | 3600 | 135 | 135 | 2370 | 2370 | 4574 | 4679 | 6/10 | 6/10 | 2500 | 2700 |
| | 3700 | 3700 | 135 | 135 | 2420 | 2420 | 4674 | 4779 | 6/10 | 6/10 | 2500 | 2700 |
| | 4000 | 4000 | 135 | 135 | 2620 | 2620 | 4974 | 5079 | 6/6 | 6.6 | 2450 | 2650 |
| | 4300 | 4300 | 135 | 135 | 2770 | 2770 | 5274 | 5379 | 6/6 | 6/6 | 2100 | 2500 |
| | 4500 | 4500 | 135 | 135 | 2870 | 2870 | 5474 | 5579 | 6/6 | 6/6 | 2000 | 2250 |
| | 5000 | 5000 | 135 | 135 | 3120 | 3120 | 5974 | 6079 | 6/6 | 6/6 | 1600 | 2050 |
| | 2000 | 2000 | 631 | 491 | 1570 | 1570 | 2968 | 3079 | 6/10 | 6/10 | 2500 | 2800 |
| | 2500 | 2500 | 881 | 741 | 1820 | 1820 | 3468 | 3579 | 6/10 | 6/10 | 2500 | 2800 |
| | 3000 | 3000 | 1131 | 991 | 2070 | 2070 | 3968 | 4079 | 6/10 | 6/10 | 2500 | 2800 |
| Two stage ZZ | 3300 | 3300 | 1281 | 1141 | 2220 | 2220 | 4268 | 4379 | 6/10 | 6/10 | 2500 | 2800 |
| 100 Part 100 Part | 3500 | 3500 | 1381 | 1241 | 2320 | 2320 | 4468 | 4579 | 6/10 | 6/10 | 2500 | 2700 |
| | 3600 | 3600 | 1431 | 1291 | 2370 | 2370 | 4568 | 4679 | 6/10 | 6/10 | 2500 | 2700 |
| | 3700 | 3700 | 1481 | 1341 | 2420 | 2420 | 4668 | 4779 | 6/6 | 6/6 | 2500 | 2700 |
| | 4000 | 4000 | 1681 | 1541 | 2620 | 2620 | 4968 | 5079 | 6/6 | 6/6 | 2400 | 2600 |
| | 4000 | 4000 | 1056 | 916 | 1995 | 1995 | 4978 | 5079 | 6/6 | 66 | 2300 | 2550 |
| | 4350 | 4300 | 1181 | 1041 | 2120 | 2120 | 5328 | 5379 | 6/6 | 6/6 | 2000 | 2400 |
| | 4500 | 4500 | 1231 | 1091 | 2170 | 2170 | 5476 | 5579 | 6/6 | 6/6 | 1900 | 2200 |
| Three stage DZ | 4800 | 4800 | 1331 | 1191 | 2275 | 2275 | 5776 | 5879 | 6/6 | 6/6 | 1600 | 2100 |
| | 5000 | 5000 | 1474 | 1334 | 2413 | 2413 | 5976 | 6079 | 6/6 | 6/6 | 1500 | 2000 |
| | -5500 | 5500 | 1708 | 1568 | 2647 | 2647 | 6476 | 6579 | 3/6 | 3/6 | 1150 | 1500 |
| | 6000 | 6000 | 1941 | 1801 | 2880 | 2880 | 6976 | 7079 | 3.6 | 3.6 | 800 | 1100 |
| | 6500 | 6500 | 2174 | 2034 | 3113 | 3113 | 7476 | 7579 | 3/3 | 3/3 | 500 | 750 |

Free lift height (no load-backrest) +425mm

| Designtion | Lift height h3 (mm) | | Free Lift h2 (mm) | | Closed mast height h1 (mm) | | Extended mast height h4 (mm) | | Tilt forward/backward α/β(°) | | Capacity table(kg) C=500m without sideshift, single pneumatic tyres | |
|----------------|------------------------|---------|----------------------|---------|-------------------------------|---------|---------------------------------|---------|---------------------------------|---------|---|---------|
| | FE4P30Q | FE4P35Q | FE4P30Q | FE4P35Q | FE4P30Q | FE4P35Q | FE4P30Q | FE4P35Q | FE4P30Q | FE4P3SQ | FE4P30Q | FE4P3SQ |
| | 2000 | 2000 | 135 | 140 | 1570 | 1680 | 3079 | 3079 | 6/10 | 6/10 | 3000 | 3500 |
| | 2500 | 2500 | 135 | 140 | 1820 | 1930 | 3579 | 3579 | 6/10 | 6/10 | 3000 | 3500 |
| | 3000 | 3000 | 135 | 140 | 2070 | 2180 | 4079 | 4079 | 6/10 | 6/10 | 3000 | 3500 |
| | 3300 | 3300 | 135 | 140 | 2220 | 2330 | 4379 | 4379 | 6/10 | 6/10 | 3000 | 3500 |
| n n | 3500 | 3500 | 135 | 140 | 2320 | 2430 | 4579 | 4579 | 6/10 | 6/10 | 3000 | 3500 |
| Two stage ZT | 3600 | 3600 | 135 | 140 | 2370 | 2480 | 4679 | 4679 | 6/10 | 6/10 | 3000 | 3500 |
| | 3700 | 3700 | 135 | 140 | 2420 | 2530 | 4779 | 4779 | 6/10 | 6/10 | 2950 | 3250 |
| | 4000 | 4000 | 135 | 140 | 2620 | 2730 | 5079 | 5079 | 6/6 | 6/6 | 2850 | 3000 |
| | 4300 | 4300 | 135 | 140 | 2770 | 2880 | 5379 | 5379 | 6/6 | 6/6 | 2700 | 2800 |
| | 4500 | 4500 | 135 | 140 | 2870 | 2980 | 5579 | 5579 | 6/6 | 6.6 | 2500 | 2600 |
| | 5000 | 5000 | 135 | 140 | 3120 | 3230 | 6079 | 6079 | 6/6 | 6/6 | 2100 | 2200 |
| | 2000 | 2000 | 563 | 491 | 1545 | 1570 | 3079 | 3079 | 6/10 | 6/10 | 3000 | 3500 |
| | 2500 | 2500 | 813 | 741 | 1795 | 1820 | 3579 | 3579 | 6/10 | 6/10 | 3000 | 3500 |
| 20 12 1 | 3000 | 3000 | 1063 | 991 | 2045 | 2070 | 4079 | 4079 | 6/10 | 6/10 | 3000 | 3500 |
| Two stage ZZ | 3300 | 3300 | 1213 | 1141 | 2195 | 2220 | 4379 | 4379 | 6/10 | 6/10 | 3000 | 3500 |
| | 3500 | 3500 | 1313 | 1241 | 2295 | 2320 | 4579 | 4579 | 6/10 | 6/10 | 3000 | 3500 |
| | 3600 | 3600 | 1363 | 1291 | 2345 | 2370 | 4679 | 4679 | 6/10 | 6/10 | 3000 | 3500 |
| | 3700 | 3700 | 1413 | 1341 | 2395 | 2420 | 4779 | 4779 | 6/6 | 6/6 | 3000 | 3500 |
| | 4000 | 4000 | 1613 | 1541 | 2595 | 2620 | 5079 | 5079 | 6/6 | 6/6 | 2850 | 3200 |
| | 4000 | 4000 | 988 | 916 | 1970 | 1970 | 5079 | 5079 | 6/6 | 6/6 | 2750 | 3200 |
| | 4350 | 4300 | 1113 | 1041 | 2095 | 2095 | 5379 | 5379 | 6/6 | 6/6 | 2600 | 3000 |
| | 4500 | 4500 | 1163 | 1091 | 2145 | 2145 | 5579 | 5579 | 6/6 | 6/6 | 2400 | 3000 |
| Three stage DZ | 4800 | 4800 | 1263 | 1191 | 2245 | 2245 | 5879 | 5879 | 6/6 | 6/6 | 2200 | 2500 |
| | 5000 | 5000 | 1406 | 1334 | 2388 | 2388 | 6079 | 6079 | 6/6 | 6/6 | 2000 | 2400 |
| | 5500 | 5500 | 1640 | 1568 | 2622 | 2622 | 6579 | 6579 | 3/6 | 3/6 | 1500 | 1750 |
| | 6000 | 6000 | 1873 | 1801 | 2855 | 2855 | 7079 | 7079 | 3/6 | 3/6 | 1200 | 1250 |
| | 6500 | 6500 | 2107 | 2034 | 3088 | 3088 | 7579 | 7579 | 3/3 | 3/3 | 800 | 900 |

Free lift height (no load-backrest) +425mm

| FE4 | P25U | 35QIIBatteryIBalanceIWeightITypeIForklift | | | | | | | | |
|-------------------|------------------|---|------------|-----------------------------|------------------|-----------------------------|-----------------------|--|--|--|
| | 1.1 | Manufacture(abbreviation) | | | olellift | | | | | |
| | 1.2 | Manufacturer's type designation | | FE4P25Q | FE4P28Q | FE4P30Q | FE4P35Q | | | |
| B | 1.3 | Drive:electric(battery or mains).diesel.petrol gas.manual) | | electric | | | | | | |
| cal | 1.4 | ype of operation(hand.pedestrian.standing.seated.order-picker) | | | seated | | | | | |
| Identification | 1.5 | Load capacity/rated load | Q (kg) | 2500 | 2800 | 3000 | 3500 | | | |
| Đ | 1.6 | Load centre distance | e (mm) | | | 00 | | | | |
| | 1.8 | Load distance centre of drive axle to fork | x (mm) | 478 | 483 | 478 | 483 | | | |
| | 1.9 | wheelbase | y (mm) | 1620 | 1700 | 18 | 00 | | | |
| ts. | 2.1 | Service weight incl. battery(see line 6.5) | kg | 3600 | 3860 | 4070 | 4480 | | | |
| Weights | 2.2 | Axle loading Jaden front/rear | kg | 5500/600 | 6010/650 | 6390 680 | 7140/840 | | | |
| š | 2.3 | Axle loading unladen front/rear | kg | 1540/2060 | 1680/2180 | 1750/2320 | 1960/252 | | | |
| en. | 3.1 | Type solid rubber superelastic pneumatic polyurethane pneumatic | | | | | | | | |
| Chassis | 3.2 | Tyres size, from | | 7.00-12-12PR | 7.00-12-16PR | | ×9-15-14PR | | | |
| 5 | 3.3 | Tyres size rear | | 6.00-9-10PR | 6.00-9-12PR | 6.50-1 | 0-10PR | | | |
| | 3.5 | Wheels number front/rear(==driven wheels) | | | 2 | ×/2 | | | | |
| Wheels, | 3.6 | Track width from | b10 (mm) | 97 | | *********** | 004 | | | |
| ⋛ | 3.7 | Track width rear | b11 (mm) | | | 82 | | | | |
| _ | 4.1 | Mast fork carriage tilt forward backward | α/β(°) | | 6 | 10 | | | | |
| 1.6 | 4.2 | lowered mast height | h1 (mm) | 201 | | 2070 | 2185 | | | |
| | 4.3 | Free lift | h2 (mm) | 135 | | | | | | |
| | 4.4 | Lift height | h3 (mm) | 133 | 140 | 140 | 145 | | | |
| | 4.5 | | | 2074 | | T | 70 | | | |
| | 4.7 | Extended must height | h4 (mm) | 3974 4079 4079 | | | | | | |
| 100 | Participant | Overhead load guardheight | h6 (mm) | 2150 1130 | | | | | | |
| sion | 4.8 | Sent height standing height | h7 (mm) | 580 | | | | | | |
| Basic Dimemsions | 4.12 | Coupling height | h10 (mm) | 24/0 | rteannean sanaan | (| 2010 | | | |
| E | 4.19 | | 11 (mm) | 3568 | 3663 | 3773 | 3818 | | | |
| 0 | 4.20 | Length to face of forks | 12 (mm) | 2498 | 2593 | 2703 | 2748 | | | |
| Bas | 4.21 | Overall width | bl (mm) | 11 | ****** | | 26 | | | |
| | 4.22 | Fork dimensions | s/e/l (mm) | 40 / 120/ 1070 | 45 / 125/ 1070 | 45 / 125 / 1070 | 50 / 125/10 | | | |
| | 4.24 | | b3 (mm) | 1040 | 1100 | | 00 | | | |
| | 4.31 | Ground clearance laden under mast | ml (mm) | 135 | | | | | | |
| | 4.32 | | m2 (mm) | | | 50 | | | | |
| | Emales of | | Ast(mm) | 3849 | 3949 | 4078 | 4123 | | | |
| | Part of the last | Aisle width for pallets 800×1200 lengthways | Ast(mm) | 3997 | 4097 | 4278 | 4323 | | | |
| | 4.35 | Turning radius | Wa (mm) | 2230 | 2350 | 2400 | 2440 | | | |
| ata | 5.1 | Travel speed, laden/unladen | km/h | 12 | 13 | 12/13 | 11 / 12 | | | |
| 9 | 5.2 | Lift speed,laden/unladen | m/s | 0.26/ 0.34 | | 0.26/ 0.34 0.25/ 0.3 | | | | |
| anc | 53 | lowering speed laden unladen | m/s | | < | 0.6 | E | | | |
| E | 5.5 | Max,Drawbar pull ,laden | N. | 3100/2100 | 3600/2600 | 3500/2500 | 3800/280 | | | |
| LPerformance Data | 5.7 | Max Gradient performance laden/unladen S2 5 min | 74 | 15 | 15 | 15 / 15 | 13 / 15 | | | |
| 5 | 5.10 | Service brake | | Hydraulie | | | | | | |
| | 6.1 | Drive motor rating S2 60 mm | kW | 1 | 0 | 11 | | | | |
| ŏ | 6.2 | Lift motor rating at \$3.15% | kW | 12 | | | | | | |
| EliMotor | 6.3 | Battery standard | | | | Lion | | | | |
| | 6.4 | Battery voltage,nominal capacity K5 | V/Ah | 80/200 option:80/300/400 | | 80/200 option:80/300/400 | 80/300 option:80/4 | | | |
| | 6.5 | Battery weight | kg | | 00 | 215 | | | | |
| | 0.3 | Battery dimensions I/w/b | mm | 770/600/680 | | 770/650/680 | | | | |
| ails | 8.1 | Type of drive control | P /8 | | A | C | | | | |
| Jother Details | 8.2 | Operating pressure for attachments | Mpa | | 17.5 | | | | | |
| DU. | - | Oil volume for attachments | Umin | | | 36 | - | | | |
| 0 | 8.3 | | E STEELS | | | 503 | | | | |