

# EFX3-251/301

## 2500kg Li-ion Counterbalance Forklift



- High ground clearance and big tyres to operate on uneven surfaces
- PMSM technology for better efficiency and performance
- Removable Li-ion battery fitting multi-shift operation better
- All-rounder both for indoor and outdoor usage
- Ergonomic zone for fatigue-free work
- 80V Li-Ion battery grant efficiency, good autonomy and opportunity charging
- Single phase integrated charger with 16A plug

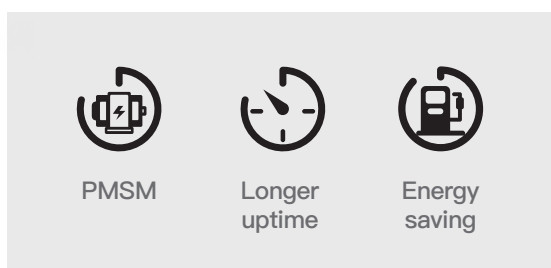


| Manufacturer                     |       |      | iMOW        | iMOW        |
|----------------------------------|-------|------|-------------|-------------|
| Model designation                |       |      | EFX3-251    | EFX3-301    |
| Drive                            |       |      | Electric    | Electric    |
| Load capacity                    | Q     | kg   | 2500        | 3000        |
| Load center distance             | c     | mm   | 500         | 500         |
| Service weight                   |       | kg   | 4050        | 4255        |
| Retracted mast height            | h1    | mm   | 2070        | 2070        |
| Lift height                      | h3    | mm   | 3000        | 3000        |
| Height, mast extended            | h4    | mm   | 4175        | 4175        |
| Length to face of forks          | l2    | mm   | 2496        | 2541        |
| Overall width                    | b1/b2 | mm   | 1154        | 1154        |
| Fork dimensions                  | s/e/l | mm   | 45×122×1070 | 50×122×1070 |
| Turning radius                   | Wa    | mm   | 2217        | 2250        |
| Travel speed, laden/unladen      |       | km/h | 11/12       | 11/12       |
| Lifting speed, laden/unladen     |       | m/s  | 0.29/0.36   | 0.28/0.36   |
| Lowering speed, laden/unladen    |       | m/s  | 0.4/0.43    | 0.4/0.43    |
| Max. gradeability, laden/unladen |       | %    | 15/15       | 15/15       |
| Drive motor rating S2 60 min     |       | kW   | 8           | 8           |
| Battery voltage/nominal capacity |       |      | 80V150AH    | 80V150AH    |

## FEATURE

### ■ PMSM technology for better efficiency and performance

The EFX3-251/301 adopts permanent magnet synchronous motor (PMSM) technology to deliver longer battery life. This efficiency optimization motor brings better energy savings and maximizes the battery uptime at optimal working scenarios by 10% comparing to regular motors.



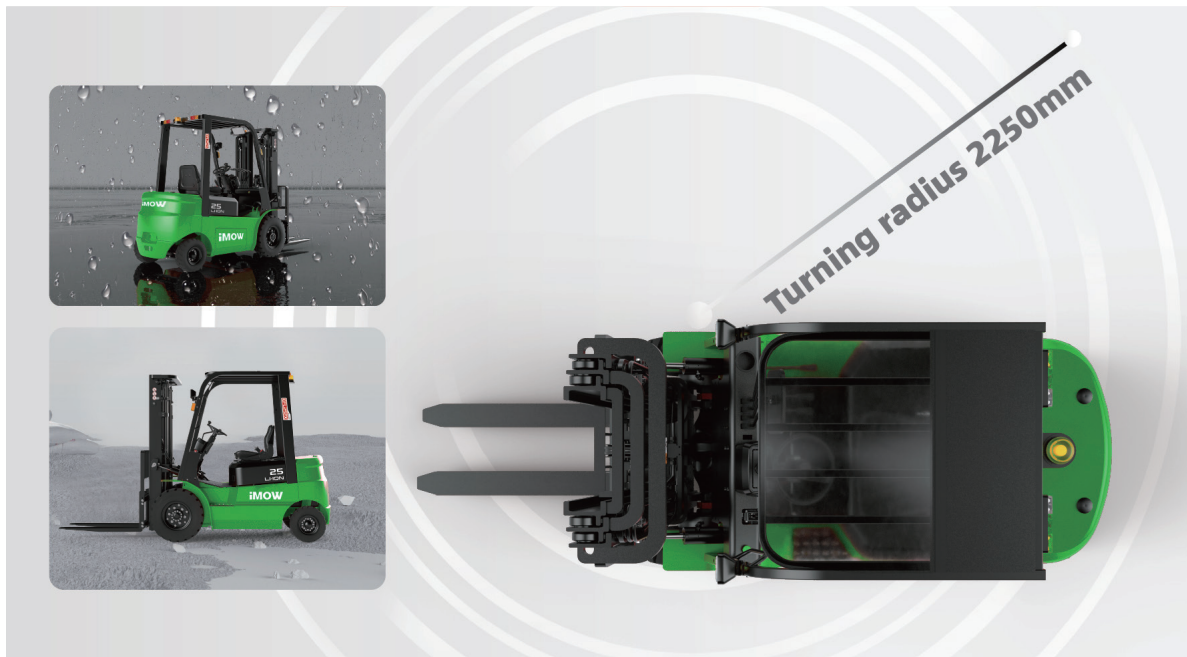
### ■ Removable Li-ion battery offering convenience for daily usage

The EFX3-251/301 is designed around the advantages of lithium technology, equipped with removable 80V/150Ah Li-ion battery as standard and bigger battery up to 80V/280Ah as option. It allows for not only opportunity charging and zero maintenance, but also being laterally pulled and replaced easily, which makes it a helper for rugged environments that lack of charging facilities.



## ■ All-rounder for both indoor and outdoor usage

The compact EFX3-251/301 features a small turning radius 2250mm, and its agility ensures handling capacities in tight spaces and narrow aisles. Besides, the EFX3-251/301 is water-protected and can be operated outdoors, even in the rain.



## ■ Ergonomic zone for fatigue-free work

The EFX3-251/301 comes offers a spacious workspace, with a simplified panel, an adjustable steering wheel and a comfortable pedal. All are designed in line with ergonomic considerations for operation comfort.

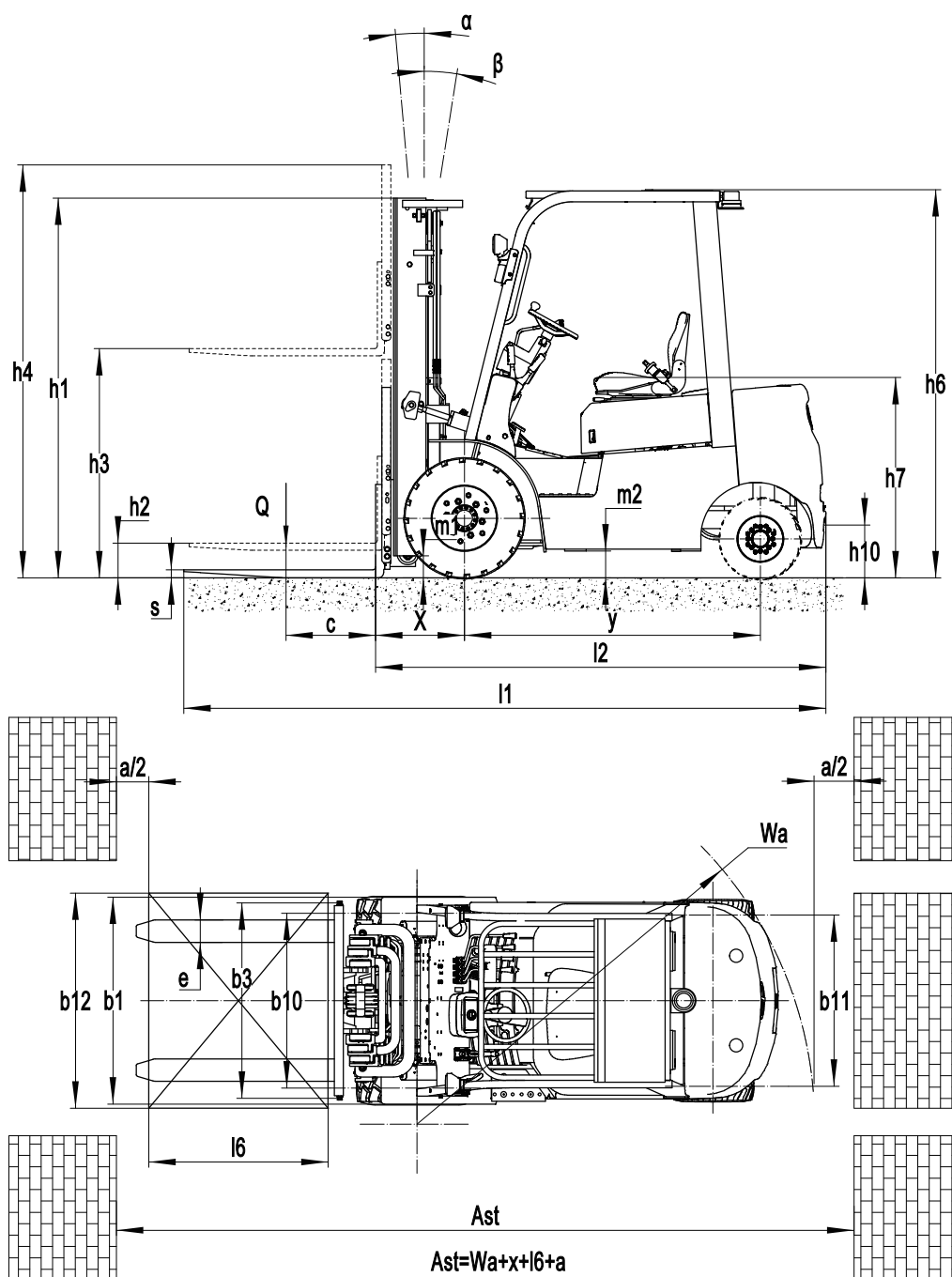


## 2.5ton Li-ion Counterbalance Forklift Truck

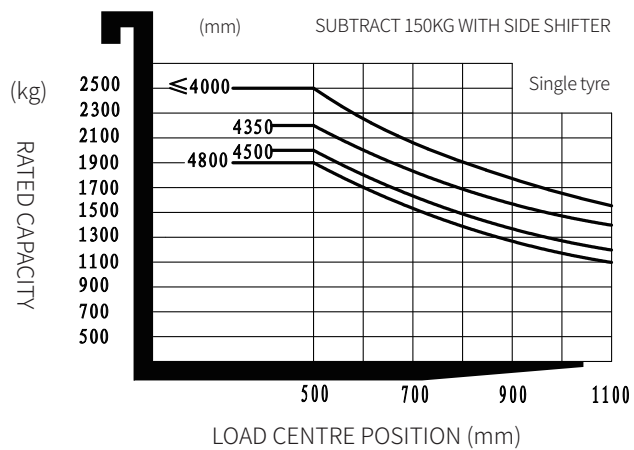
### EFX3-251/301

|                     |        |   |                                |       |              |              |
|---------------------|--------|---|--------------------------------|-------|--------------|--------------|
| Distinguishing mark | 1.1    | Manufacturer                                |                                |       | iMOW         | iMOW         |
|                     | 1.2    | Model designation                           |                                |       | EFX3-251     | EFX3-301     |
|                     | 1.3    | Drive                                       |                                |       | Electric     | Electric     |
|                     | 1.4    | Operator type                               |                                |       | Seated       | Seated       |
|                     | 1.5    | Load capacity                               | Q                              | kg    | 2500         | 3000         |
|                     | 1.6    | Load center distance                        | c                              | mm    | 500          | 500          |
|                     | 1.8    | Load distance, centre of drive axle to fork | x                              | mm    | 481          | 486          |
|                     | 1.9    | Wheelbase                                   | y                              | mm    | 1650         | 1650         |
|                     | 2.1    | Service weight                              |                                | kg    | 4050         | 4255         |
| Service weight      | 2.2    | Axle loading, laden front/rear              |                                | kg    | 6580/470     | 6925/530     |
|                     | 2.3    | Axle loading, unladen front/rear            |                                | kg    | 1790/2260    | 1805/2450    |
|                     | 3.1    | Tyre type                                   |                                |       | Solid rubber | Solid rubber |
| Tyre/chassis        | 3.2    | Tyre size, front                            |                                |       | 7.00-12      | 7.00-12      |
|                     | 3.3    | Tyre size, rear                             |                                |       | 18X7-8       | 18X7-8       |
|                     | 3.5    | Wheels, number front/rear (x=drive wheels)  |                                | mm    | 2x/ 2        | 2x/ 2        |
|                     | 3.6    | Tread width, front                          | b <sub>10</sub>                | mm    | 975          | 975          |
|                     | 3.7    | Tread width, rear                           | b <sub>11</sub>                | mm    | 955          | 955          |
| Dimensions          | 4.1    | Tilt of mast/fork carriage forward/backward | $\alpha/\beta$                 | °     | 6/ 10        | 6/ 10        |
|                     | 4.2    | Retracted mast height                       | h <sub>1</sub>                 | mm    | 2070         | 2070         |
|                     | 4.3    | Free lift                                   | h <sub>2</sub>                 | mm    | 135          | 135          |
|                     | 4.4    | Lift height                                 | h <sub>3</sub>                 | mm    | 3000         | 3000         |
|                     | 4.5    | Height, mast extended                       | h <sub>4</sub>                 | mm    | 4095         | 4095         |
|                     | 4.7    | Height of overhead guard (cabin)            | h <sub>6</sub>                 | mm    | 2170         | 2170         |
|                     | 4.8    | Seat height/standing height                 | h <sub>7</sub>                 | mm    | 1110         | 1110         |
|                     | 4.12   | Tow coupling height                         | h <sub>10</sub>                | mm    | 295          | 295          |
|                     | 4.19   | Overall length                              | l <sub>1</sub>                 | mm    | 3566         | 3611         |
|                     | 4.20   | Length to face of forks                     | l <sub>2</sub>                 | mm    | 2496         | 2541         |
|                     | 4.21   | Overall width                               | b <sub>1</sub> /b <sub>2</sub> | mm    | 1154         | 1154         |
|                     | 4.22   | Fork dimensions                             | s×e×l                          | mm    | 45×122×1070  | 50×122×1070  |
|                     | 4.23   | A,B Fork carriage class/type A, B           |                                |       | 3A           | 3A           |
|                     | 4.24   | Fork carriage width                         | b <sub>3</sub>                 | mm    | 1040         | 1040         |
|                     | 4.31   | Ground clearance, laden, below mast         | m <sub>1</sub>                 | mm    | 120          | 120          |
|                     | 4.32   | Ground clearance, center of wheelbase       | m <sub>2</sub>                 | mm    | 150          | 150          |
|                     | 4.34.1 | Aisle width for pallets 1000×1200 crossways | Ast                            | mm    | 3898         | 3946         |
|                     | 4.34.2 | Aisle width for pallets 800×1200 lengthways | Ast                            | mm    | 4098         | 4146         |
|                     | 4.35   | Turning radius                              | Wa                             | mm    | 2217         | 2250         |
| Performance data    | 5.1    | Travel speed, laden/unladen                 |                                | km/h  | 11/12        | 11/12        |
|                     | 5.2    | Lifting speed, laden/unladen                |                                | m/s   | 0.29/0.36    | 0.28/0.36    |
|                     | 5.3    | Lowering speed, laden/unladen               |                                | m/s   | 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        |
|                     | 5.10   | Service brake                               |                                |       | Hydraulic    | Hydraulic    |
|                     | 5.11   | Parking brake                               |                                |       | Mechanical   | Mechanical   |
| Electric-engine     | 6.1    | Drive motor rating S2 60 min                |                                | kW    | 8            | 8            |
|                     | 6.2    | Lift motor rating at S3 15%                 |                                | kW    | 16           | 16           |
|                     | 6.4    | Battery voltage/nominal capacity            |                                | V/Ah  | 80V150AH     | 80V150AH     |
|                     | 6.5    | Battery weight                              |                                | kg    | —            | —            |
| Additional data     | 10.5   | Steering design                             |                                |       | Hydraulic    | Hydraulic    |
|                     | 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.



**RATED CAPACITIES AND LOAD CENTERS GRAPH**



## Mast Option

| Mast types      | Lift height<br>( h3 ) | Height, Mast                |                           |               | Height, Free lift(h2) |               |
|-----------------|-----------------------|-----------------------------|---------------------------|---------------|-----------------------|---------------|
|                 |                       | Height, mast<br>lowered(h1) | Height, mast extended(h4) |               | No<br>shelving        | With shelving |
|                 |                       |                             | No shelving               | With shelving |                       |               |
|                 | mm                    | mm                          | mm                        | mm            | mm                    | mm            |
| 2-Standard Mast | 3000                  | 2090                        | 3565                      | 4025          | 120                   | 120           |
|                 | 3300                  | 2240                        | 3865                      | 4325          | 120                   | 120           |
| 3-Free Mast     | 4500                  | 2115                        | 5065                      | 5525          | 1550                  | 1090          |
|                 | 4800                  | 2220                        | 5365                      | 5825          | 1655                  | 1195          |

## Option

| Optional items                           | EFX3-251/301   |
|--|--|
| Fork dimension                           | ○122*45*1070○122*45*1150○122*45*1220○122*45*1370<br>○122*45*1520○122*45*1600○122*45*1700○122*45*1820<br>○122*45*2000○122*45*2200○122*45*2400 |
| Fork carriage width                      | ●1040mm ○Yes and can be customized   |
| Fork carriage height                     | ●1095mm ○Yes and can be customized   |
| Front wheel material                     | ●Normal solid ○Traceless solid   |
| Rear wheel material                      | ●Normal solid ○Traceless solid   |
| Battery capacity                         | ○80V100AH ●80V150AH ○80V230AH ○80V280AH  |
| Charger                                  | ○80V65A●80V35A(Internal) ○80V60A(Internal)   |
| Battery indicator                        | ●With hourtime   |
| Seat type                                | ○Normal○Comfortable ○Suspension<br>○Suspension + safety belt logic switch  |
| Attachments                              | ●No○Built-in sideshifter ○External shifter<br>○Fork positioner with sideshift  |
| Traction pin                             | ●Yes   |
| Electrostatic discharge chain            | ●Yes   |
| Front lamp                               | ●LED   |
| Rear lamp                                | ●No ○LED   |
| Warning lamp                             | ●Yes   |
| Steering lamp                            | ●Yes   |
| Blue lamp                                | ●None ○Two in the front ○One in the rear<br>○Two in the front+One in the rear  |
| Area warning lamp                        | ●None○Red, both sides  |
| Rearview mirror                          | ●One in front ○Two on sides  |
| Buzzer                                   | ●Yes   |
| OPS system                               | ●No ○Yes and not customized  |
| Telematics                               | ●Yes and not customized ○No  |
| Battery side pull function               | ●Yes and not customized  |
| Cabin                                    | ●No ○With tempered glass OHG ○Basic half cabin<br>○Upgrade half cabin ○Full cabin  |
| Overhead guard                           | ●Yes○No  |
| Battery side pull attachment             | ●No<br>○Yes and not customized   |
| Note: ●Standard ○Optional - Inconformity |  |