

**KOMATSU**

**AE50 Series**

Model: FB18-12

FB18G-12

**KOMATSU FORKLIFT**

**AE50 SERIES**

**● STANDARD SPECIFICATIONS**

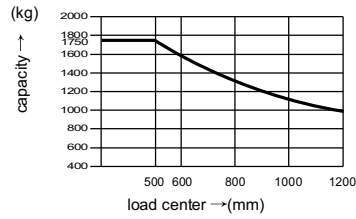
|                 |                | Manufacturer's Designation            |  | FB18-12                                       | FB18G-12         |                |
|-----------------|----------------|---------------------------------------|--|---|------------------|----------------|
| Characteristics | 1.2            | Model                                 |  |   |                  |                |
|                 | 1.3            | Power Type                            | Electric, Diesel, Gasoline, LPG, Cable |   | Electric         |                |
|                 | 1.4            | Operation Type                        |  |   | Sitting          |                |
|                 | 1.5            | Rated Capacity                        | Q                                      | Rated Capacity                                | kg               | 1750           |
|                 | 1.6            | Load Center                           | c                                      | Rated Load Center                             | mm               | 500            |
|                 | 1.6.1          | Alternative Capacity                  | Q2                                     | Capacity @600mm Load Center                   | kg               | 1570           |
|                 | 1.8            | Load Distance                         | x                                      | Front Axle Center to Fork Face                | mm               | 405            |
|                 | 1.9            | Wheelbase                             | y                                      |   | mm               | 1410      1540 |
|                 | Weight         | 2.1                                   | Service Weight                         | Including Min. Capacity Battery, See line 6.5 |                  | kg             |
| 2.2             |                | Axle Loading                          | Loaded                                 | Front   | kg               | 4400      4440 |
| 2.2.1           |                |                                       |  | Rear  | kg               | 520      610   |
| 2.3             |                |                                       | Unloaded                               | Front   | kg               | 1490      1630 |
| 2.3.1           |                |                                       |  | Rear  | kg               | 1680      1670 |
| Tyre            | 3.1            | Tyre Type                             |  |   | Pneumatic        |                |
|                 | 3.2            | Tyre Size                             | Front                                  |   | 18x7-8-16PR(I)   |                |
|                 | 3.3            |                                       | Rear                                   |   | 16x6-8-10PR(I)   |                |
|                 | 3.5            | Number of Wheel                       | Front/Rear(x=driven)                   |   | 2x/2             |                |
|                 | 3.6            | Tread, Front                          | b <sub>10</sub>                        |   | mm               | 940            |
|                 | 3.7            | Tread, Rear                           | b <sub>11</sub>                        |   | mm               | 865            |
|                 | Dimensions     | 4.1                                   | Tilting Angle                          | $\alpha/\beta$                                | Forward/Backward | degree         |
| 4.2             |                | Mast Height, Lowered                  | h <sub>1</sub>                         | 2-stage Mast                                  | mm               | 1995           |
| 4.3             |                | Std. Free Lift                        | h <sub>2</sub>                         | 2-stage Std. Mast from Ground                 | mm               | 140            |
| 4.4             |                | Std. Lift Height                      | h <sub>3</sub>                         | 2-stage Std. Mast from Ground                 | mm               | 3000           |
| 4.5             |                | Mast Height, Extended                 | h <sub>4</sub>                         | 2-stage Std. Mast                             | mm               | 3955           |
| 4.7             |                | Height, Overhead Guard                | h <sub>6</sub>                         |   | mm               | 2070           |
| 4.19            |                | Length, with Std. Forks               | l <sub>1</sub>                         |   | mm               | 3015      3115 |
| 4.20            |                | Length, to Fork Face                  | l <sub>2</sub>                         |   | mm               | 2095      2195 |
| 4.21            |                | Width, at Tyre                        | b <sub>1</sub>                         | Single  | mm               | 1110           |
| 4.22            |                | Forks                                 | s/e/l                                  | Thickness/Width/Length                        | mm               | 35x100x920     |
| 4.23            |                | Fork Carriage Class                   | ISO 2328, Type A/B/no                  |   | Class 2, Type A  |                |
| 4.24            |                | Width, Fork Carriage                  | b <sub>3</sub>                         |   | mm               | 970            |
| 4.31            |                | Ground Clearance                      | m <sub>1</sub>                         | Under Mast                                    | mm               | 95             |
| 4.32            |                |                                       | m <sub>2</sub>                         | at Center of Wheelbase                        | mm               | 125            |
| 4.33            |                | Right Angle Stacking Aisle            | Ast                                    | with L1000 x W1200 pallet                     | mm               | 3190*          |
| 4.34            | Ast            |                                       | with L1200 x W800 pallet               | mm  | 3390*            |                |
| 4.35            | Turning Radius | Wa                                    |  | mm  | 1785      1930   |                |
| Performance     | 5.1            | Travel speed (FWD)                    | Loaded/Unloaded                        | km/h  | 15.0/17.0        |                |
|                 | 5.2            | Lifting Speed                         | Loaded/Unloaded                        | mm/s  | 320/600          |                |
|                 | 5.3            | Lowering Speed                        | Loaded/Unloaded                        | mm/s  | 450/550          |                |
|                 | 5.6            | Max. Drawbar Pull                     | Loaded, 3min, rating                   | N   | 9560             |                |
|                 | 5.8            | Max. Gradeability                     | Loaded, 3min, rating/1.5km/h           | %   | 16               |                |
|                 | 5.10           | Service Brake                         | Operation/Control                      |   | Foot/Hydraulic   |                |
|                 | 5.10.1         | Parking Brake                         | Operation/Control                      |   | Hand/Mechanical  |                |
| 5.10.2          | Steering       | Type                                  |  | FHPS  |                  |                |
| Drive           | 6.1            | Drive Motor (AC)                      | 60 min, rating                         | kW  | 4.5x2            |                |
|                 | 6.2            | Pump Motor (AC)                       | 5 min, rating                          | kW  | 9.0              |                |
|                 | 6.4            | Battery Voltage                       |  | V   | 48               |                |
|                 | 6.4.1          | Battery Capacity, Min.                |  | Ah/5hr  | 402              | 645            |
|                 | 6.4.2          | Battery Capacity, Max.                |  | Ah/5hr  | 565              | 725            |
| 6.5             | Battery Weight | Min. capacity Battery, see line 6.4.1 | kg                                     | 720   | 1000             |                |
| Others          | 8.1            | Drive Motor Control                   |  |   | Transistor       |                |
|                 | 8.2            | Relief Pressure for Attachment        |  | bar   | 176              |                |
|                 | 8.2.1          | Hydraulic Oil Capacity                |  | Ltr   | 23               |                |

\*Add clearance

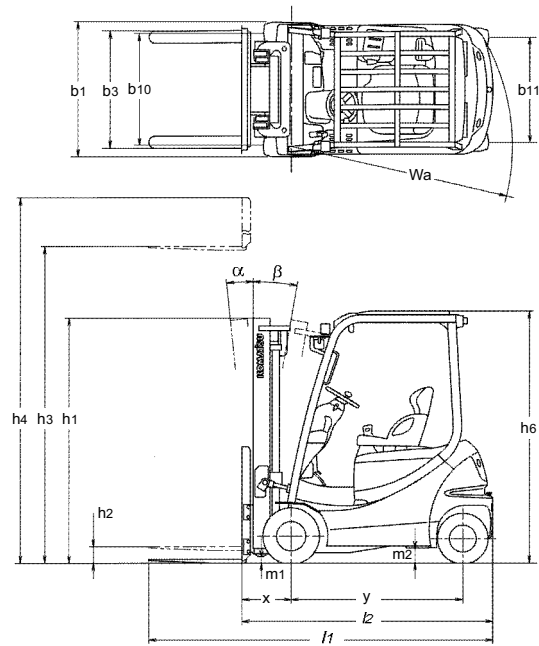
## AE50 SERIES

### FB18-12, FB18G-12

#### ● CAPACITY CHART



#### ● DRAWING



#### ● STANDARD EQUIPMENT

- 3.0mH 2-stage free view mast
- Forks
- Load backerrest
- Ergonomic combination lever
- Side battery access
- Traveling/Lifting Operator Presence Sensing (OPS) system (ISO3691)
- Floor mat
- Assist grip
- Paper binder with pen tray
- Halogen headlight
- Back-up buzzer
- Fully hydrostatic power steering
- Wide angle center mirror
- HSS II seat with seat belt
- Intelligent Monitoring System (IMS)
- Adjustable individual setups
- Emergency switch
- Neutral safety mechanism
- High-mounted rear combination lamp

#### ● OPTIONAL EQUIPMENT

- Protective resin head guard cover
- Digital load checker
- Automatic fork leveling device
- Softcarry (Hydraulic accumulator system)
- Front glass with wiper
- Anti rust coating paint
- Rear view mirror (Left & Right)
- Seat heater

**AE50 SERIES**

**FB18-12, FB18G-12**

● **MAST SPECIFICATIONS**

2-stage View Mast

\*mark is the standard mast

| Max. Fork Height | Overall Height |                       |                        | Free Lift             |                        | Tilting Angle<br>Forward /Backward | Capacity at 600mm Load Center |                             | Mast Weight |
|------------------|----------------|-----------------------|------------------------|-----------------------|------------------------|------------------------------------|-------------------------------|-----------------------------|-------------|
|                  | Lowered        | Extended              |                        | Without Load Backrest | With STD Load Backrest |                                    | Capacity at 500mm Load Center |                             |             |
|                  |                | Without Load Backrest | With STD Load Backrest |                       |                        |                                    | FB18-12, FB18G-12             | Pneumatic Single Std. Tread |             |
| mm               | mm             | mm                    | mm                     | mm                    | mm                     | degree                             | kg                            | kg                          |             |
| 2700             | 1845           | 3285                  | 3655                   | 140                   |                        | 6/10                               | 1570                          | 1750                        | -15         |
| 3000*            | 1995           | 3585                  | 3955                   | 140                   |                        |                                    | 1570                          | 1750                        | 305         |
| 3300             | 2145           | 3885                  | 4255                   | 140                   |                        |                                    | 1570                          | 1750                        | +15         |
| 3500             | 2245           | 4085                  | 4455                   | 140                   |                        |                                    | 1570                          | 1750                        | +30         |
| 3700             | 2345           | 4285                  | 4655                   | 140                   |                        |                                    | 1570                          | 1750                        | +70         |
| 4000             | 2545           | 4585                  | 4955                   | 140                   |                        |                                    | 1570                          | 1750                        | +100        |
| 4300             | 2695           | 4885                  | 5255                   | 140                   |                        | 6/6                                | 1390                          | 1550                        | +115        |
| 4500             | 2795           | 5085                  | 5455                   | 140                   |                        |                                    | 1390                          | 1550                        | +125        |
| 4700             | 2920           | 5285                  | 5655                   | 140                   |                        |                                    | 1300                          | 1450                        | +140        |
| 5000             | 3070           | 5585                  | 5955                   | 140                   |                        |                                    | 1300                          | 1450                        | +160        |

2-stage Full Free View Mast

| Max. Fork Height | Overall Height |                       |                        | Free Lift             |                        | Tilting Angle<br>Forward /Backward | Capacity at 600mm Load Center |                             | Mast Weight |
|------------------|----------------|-----------------------|------------------------|-----------------------|------------------------|------------------------------------|-------------------------------|-----------------------------|-------------|
|                  | Lowered        | Extended              |                        | Without Load Backrest | With STD Load Backrest |                                    | Capacity at 500mm Load Center |                             |             |
|                  |                | Without Load Backrest | With STD Load Backrest |                       |                        |                                    | FB18-12, FB18G-12             | Pneumatic Single Std. Tread |             |
| mm               | mm             | mm                    | mm                     | mm                    | mm                     | degree                             | kg                            | kg                          |             |
| 3000*            | 1995           | 3605                  | 3975                   | 1435                  | 1065                   | 6/10                               | 1570                          | 1750                        | 340         |
| 3300             | 2145           | 3905                  | 4275                   | 1585                  | 1215                   |                                    | 1570                          | 1750                        | +20         |
| 3500             | 2245           | 4105                  | 4475                   | 1685                  | 1315                   |                                    | 1570                          | 1750                        | +30         |
| 4000             | 2545           | 4605                  | 4975                   | 1985                  | 1615                   |                                    | 1570                          | 1750                        | +90         |

3-stage Full Free View Mast

| Max. Fork Height | Overall Height |                       |                        | Free Lift             |                        | Tilting Angle<br>Forward /Backward | Capacity at 600mm Load Center |                             | Mast Weight |                            |      |
|------------------|----------------|-----------------------|------------------------|-----------------------|------------------------|------------------------------------|-------------------------------|-----------------------------|-------------|----------------------------|------|
|                  | Lowered        | Extended              |                        | Without Load Backrest | With STD Load Backrest |                                    | Capacity at 500mm Load Center |                             |             |                            |      |
|                  |                | Without Load Backrest | With STD Load Backrest |                       |                        |                                    | FB18-12, FB18G-12             | Pneumatic Single Std. Tread |             | Elastic Cushion Std. Tread |      |
| mm               | mm             | mm                    | mm                     | mm                    | mm                     | degree                             | kg                            | kg                          |             |                            |      |
| 3700             | 1795           | 4315                  | 4685                   | 1235                  | 865                    | 6/6                                | 1530                          | 1700                        | 1530        | 1700                       | -35  |
| 4000             | 1895           | 4615                  | 4985                   | 1335                  | 965                    |                                    | 1480                          | 1650                        | 1480        | 1650                       | -20  |
| 4300*            | 1995           | 4915                  | 5285                   | 1435                  | 1065                   |                                    | 1390                          | 1550                        | 1390        | 1550                       | 475  |
| 4500             | 2070           | 5115                  | 5485                   | 1510                  | 1140                   |                                    | 1260                          | 1400                        | 1350        | 1500                       | +15  |
| 4700             | 2145           | 5315                  | 5685                   | 1585                  | 1215                   |                                    | 1260                          | 1400                        | 1350        | 1500                       | +30  |
| 5000             | 2245           | 5615                  | 5985                   | 1685                  | 1315                   |                                    | 1170                          | 1300                        | 1260        | 1400                       | +45  |
| 5500             | 2420           | 6115                  | 6485                   | 1860                  | 1490                   |                                    | 940                           | 1050                        | 1260        | 1400                       | +75  |
| 6000             | 2595           | 6615                  | 6985                   | 2035                  | 1665                   |                                    | 720                           | 800                         | 1030        | 1150                       | +145 |

Note: With 3-stage Full Free View Mast tilt speed will be reduced by restricting tilt lever speed.