



## 🔘 Ultra-lightweight

- Full composite, self-supporting body.
- Structural composite material.
- No chassis. No steel frame.

# Ultra-low Consumption

Lightweight composite body requires smaller main units. Combined with a state-of-the art synchronous electrical driveline, average consumption is between 0.55-0.65 kwh/km (SORT2), providing and average autonomy between 200-240 km.





- Lifetime corrosion resistance.
- Structural properties equal or better compared to traditional concepts.
- Very low body maintenance costs.
- Reduced lifetime costs compared to buses with metal body.
- Environmentally friendly construction: high ratio of recycled materials.
- Reduced axle load on road.



## 进 Modular Platform System

Variation of 4 types of modules offering various bus categories.

- 1. REAR MODULE
  - 9 seats Powertrain Rear axle

Battery pack

### 2. WINDOW MODULE

6/8 passenger seats(perpendicular/parallel to driving direction)Full low floorFurther battery pack as an option



3. DOOR MODULES

1200 mm double door

Options: 4 seats/wheelchair/baby carriage position

Options: folded ramps installation for wheelchair access

Full low floor

### 4. FRONT MODULE

Driver seat Front axle Customer specific area/wheelchair position Full low floor

Flexible type series based on the Modular Platform System.

# () Innovative Interior Design & Ergonomic Passenger Area

- Low passenger floor construction rate minimum 70%.
- Wide aisles and doors allow rapid passenger flow.
- Spacious interior results high comfort for passengers.
- Kneeling function.
- Handicapped areas with semiautomatic door ramp.
- Saving space: front door behind the front axle, wheel arches outside the passenger area.
- Easy cleanable and maintainable passenger area.



## 🔁 Battery Pack

### CHARGE TIMES

| 5 Battery packs | 4 hours                             |
|-----------------|-------------------------------------|
| (144 kWh)       | (3h charge + 1h battery equalizing) |
| 3 Battery packs | 3 hours                             |
| (86 kWh)        | (2h charge + 1h battery equalizing) |

## Overnight Charging\*

### CHARGER SPECIFICATIONS

| Input voltage  | 3x400V (-15%+10%) 50 Hz |
|----------------|-------------------------|
| Output power   | 60kW                    |
| Output current | Max. 90A                |

\* Optional opportunity charging









| MODULO  | C48 E  | C68 E                                | C88 E                                |  |  |  |
|---|--|--------------------------------------|--------------------------------------|--|--|--|
| Seated passenger                              | 19-22  | 21-26                                | 27-35                                |  |  |  |
| Total passenger capability                    | max 48   | max 68                               | max 88                               |  |  |  |
| Vehicle dimensions                            |  |                                      |                                      |  |  |  |
| Length (mm)                                   | 6507   | 7982                                 | 9457                                 |  |  |  |
| Width (mm)                                    | 2550   |                                      |                                      |  |  |  |
| Height (with AC) (mm)                         | 2940   |                                      |                                      |  |  |  |
| Wheel base (mm)                               | 4026   | 5501                                 | 6976                                 |  |  |  |
| Vehicle maneuverability                       |  |                                      |                                      |  |  |  |
| Turning radius (mm)                           | 7100   | 8834                                 | 10585                                |  |  |  |
| Rear sweep (mm)                               | 174  | 132                                  | 111                                  |  |  |  |
| Approach angle (degrees)                      | 10   |                                      |                                      |  |  |  |
| Departure angle (degrees)                     | 15   |                                      |                                      |  |  |  |
| Covered floor height                          | Covered floor height                                     |                                      |                                      |  |  |  |
| In drive postition (mm)                       | 340  |                                      |                                      |  |  |  |
| In station kneel position (mm)                | 250  |                                      |                                      |  |  |  |
| Curb weight CW (kg)                           | 4750   | 6700                                 | 7550                                 |  |  |  |
| Door arrangements                             | 0-2-0 with<br>1200mm wide entrance                       | 0-2x2-0 with<br>1200mm wide entrance | 0-2x2-0 with<br>1200mm wide entrance |  |  |  |
| Electric motor                                | Siemens 1DB2016 (Water cooled system)                    |                                      |                                      |  |  |  |
| Max power (kW)                                | 125/160  |                                      |                                      |  |  |  |
| Max torque (Nm)                               | 1019/2500  |                                      |                                      |  |  |  |
| Brake system                                  | Dual circuit, pressurized air brake<br>with safety brake |                                      |                                      |  |  |  |
| Wheel brake                                   | Wabco PAN17 or Knorr-Bremse SN5600                       |                                      |                                      |  |  |  |
| Cooling and heating system                    | Eberspeacher M12   |                                      |                                      |  |  |  |
| AC systems<br>cooling / heating capacity (kW) | Sütrak-Carrier AC520-I<br>15/30                          | Sütrak-Carrier AC520-II<br>20/30     | Sütrak-Carrier AC520-III<br>24/30    |  |  |  |



info@modulo.hu www.modulo.hu





