

CRRC GREENWAY's Electric Chassis for city bus

Tailored for 10.5-12.5 meters city bus

B12E series

GW6120BEVLE01: Electric Chassis, Low-Entry(LE), LHD/RHD, 10.5-12 meters, Single Deck

GW6120BEVLE02: Electric Chassis, Low-Entry(LE), LHD/RHD, 10.5-12 meters, Single Deck

B12F series

GW6120BEVLF01: Electric Chassis, Low-Floor(LF), LHD/RHD, 10.5-12 meters, Single Deck

GW6120BEVLF02: Electric Chassis, Low-Floor(LF), LHD/RHD, 10.5-12 meters, Single Deck

Bus Performances

Bus Performances

Product Name	B12E		B12F	
Items/Model	GW6120BEVLE01	GW6120BEVLE02	GW6120BEVLF01	GW6120BEVLF02
Technical features	Low-Entry, LHD or RHD, 10.5-12.5 meters		Low-Floor, LHD or RHD, 10.5-12.5 meters	
Top. Speed, km/h (Software limited)	80/70/60/50 (Software limited according to Technical Requirements)		80/70/60/50 (Software limited according to Technical Requirements)	
Max. Gradeability, %	>22% @18T, Final Reduction Ratio:6.19		>22% @18T, Final Reduction Ratio:6.19	
Driving Range per Charging	>250 km @WLTC driving cycle, HVAC on, 350.1 kWh battery capacity		>250 km @WLTC driving cycle, HVAC on, 350.1 kWh battery capacity	

Warranty

Prototype:

No Warranty.

Mass Orders:

HV Battery System:

8 Years or 600,000 km. less than 20% capacity lost.

Other components:

2 years or 200,000 km whichever occurs earlier.

GW6120BEVLE01

Dimension and Weights

Overall chassis length (approx.), mm	10,500-12,500(Customized)
Overhang, Front(Customer-tailored)/Rear(Fixed), mm	1900/3190, 2450/3190
Approved wheelbase, mm	5400 - 6200
Overall width, mm	2500 - 2550
Recommended/Technical Permitted GVW, kg	≤19,000/20,500

Axles, suspension and steering

Front Axle	Option1: ZF Rigid Front Suspension / Meritor Option2: ZF Independent Front Suspension / Meritor
Rear Axle	ZF with alternative ratios available / Meritor
Suspension	Electronically controlled air suspension, Front 2 Rear 4 Front and rear stabilizers, ECAS is optional
Power steering and Wheel Position	Electric hydraulic power steering, LHD/RHD
Tyres	275/70R22.5

Brakes

WABCO electronically controlled disc brakes (EBS).
Anti-lock Braking System (ABS), ASR, Brake Blending, Hill Start Aid, Brake Assist.
WABCO Electronic Stability Program (ESP) as option.

Charging

COMBO CCS2, Overnight/Fast charging, Pantograph is optional

Electric Powertrain

Driving Motor	
Rated power	165 kW
Peak power	240 kW
Maximum speed	3300 rpm
Peak torque	3200 N.m
Cooling type	water-cooling
Weight	≤280 kg
Battery Package / System	
Type	LFP, Li-iron Phosphate Battery Battery package energy density≥155Wh/kg
Capacity	Recommended: 350.1 kWh, with 10modules Optional: 281.9 kWh, with 8modules Optional: 422.9 kWh, with 12 modules
Cooling type	Water-cooling
Weight	221 kg per battery module
Life cycle	After 8years/600,000km(water-cooling), Battery capacity decay ≤20%

Driver's environment

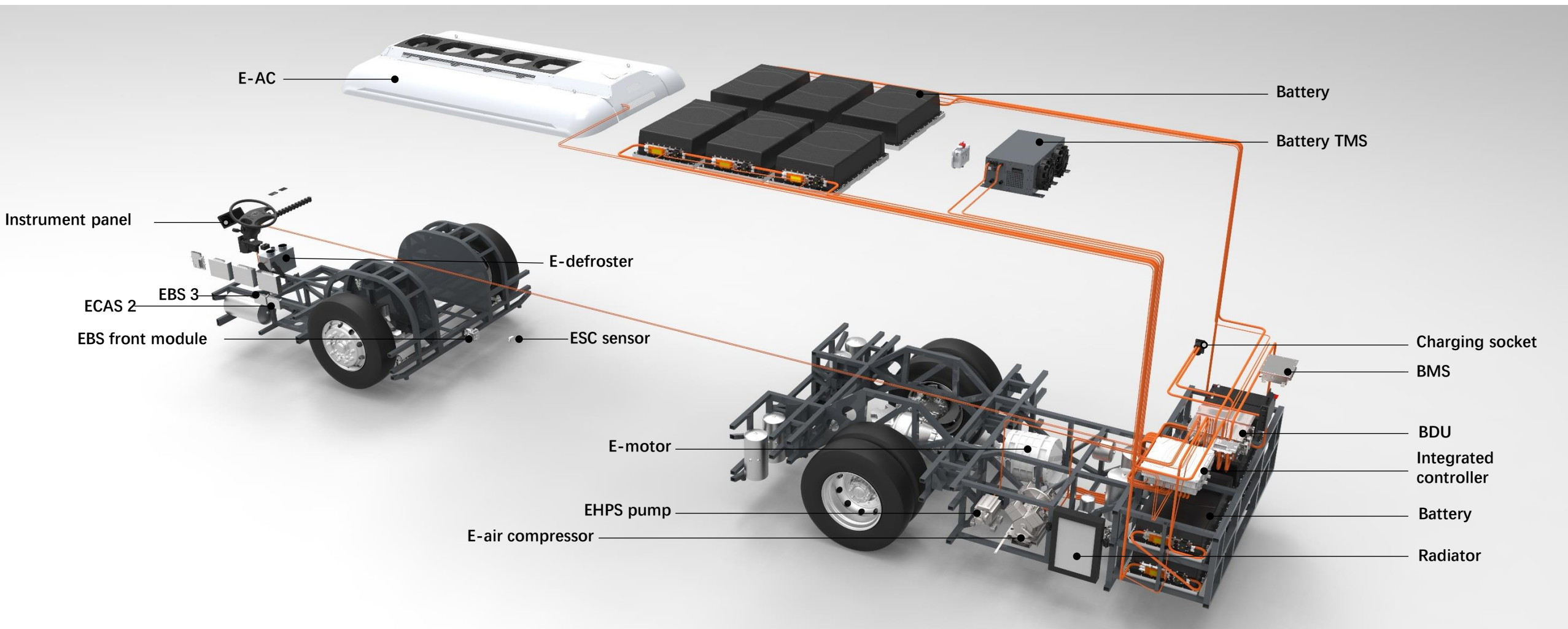
Ergonomic design with easy-reach controls.
Adjustable driver's seat and steering wheel.

Body Control System(Body E&E)

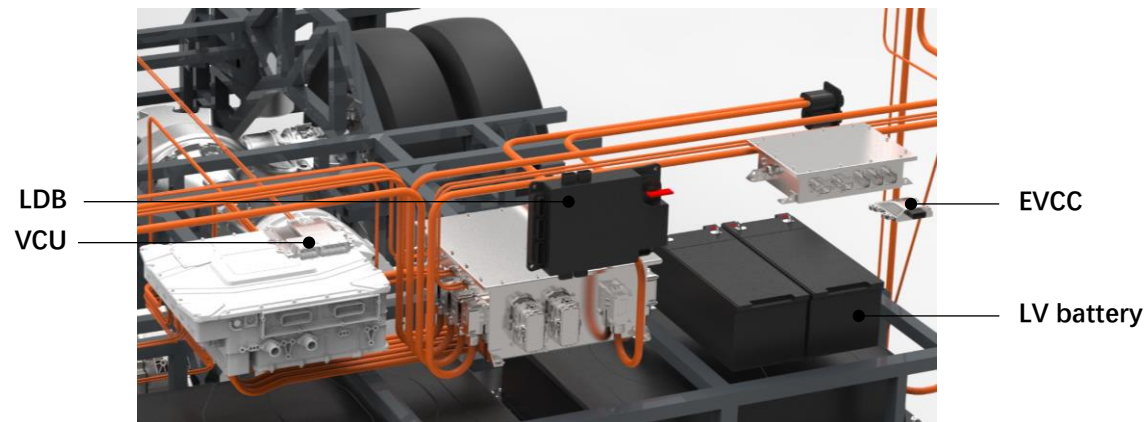
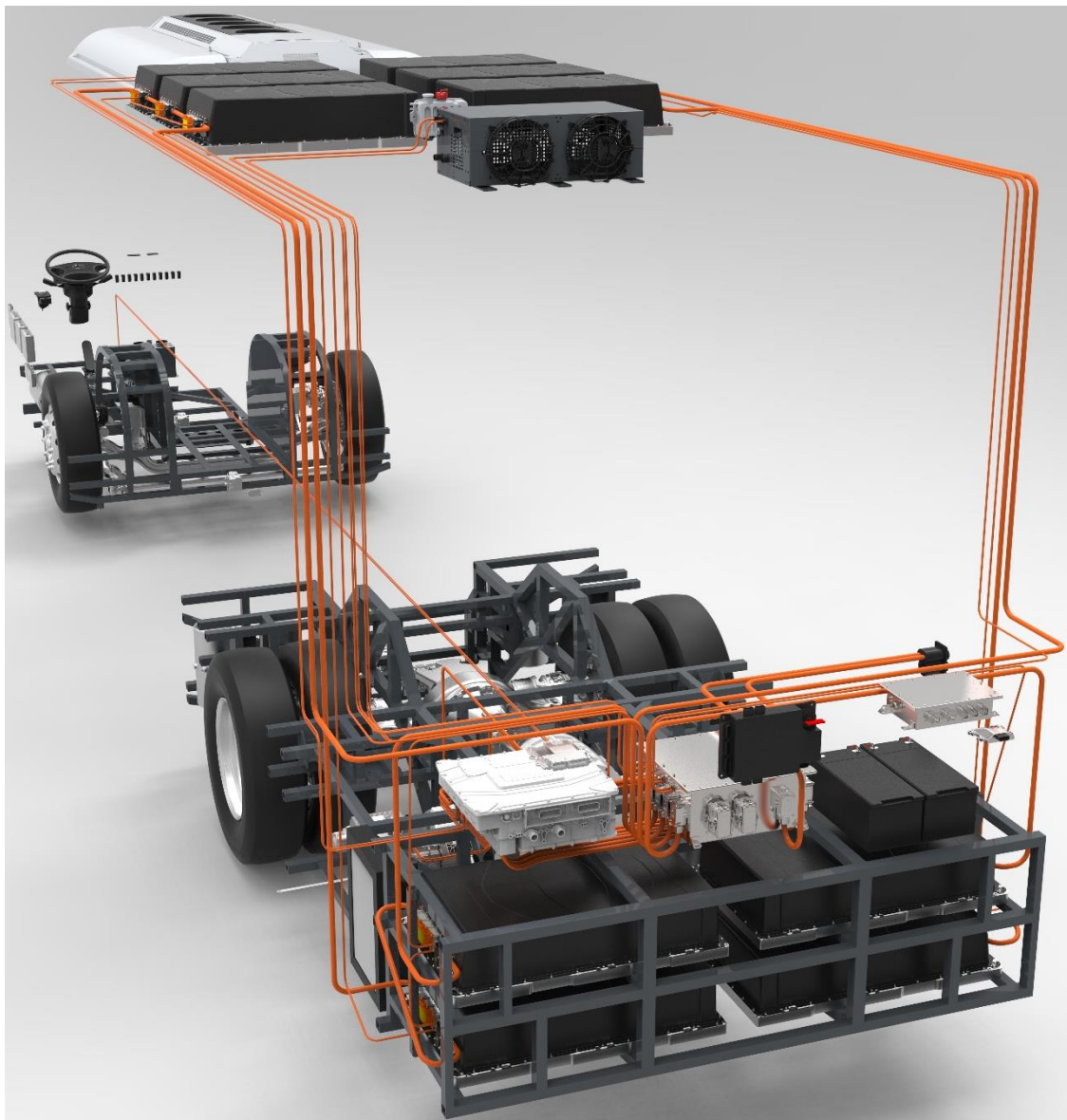
Integrated with Electric Powertrain with Body Control Modules, More convenient for bus manufacturers and cost cut-down.



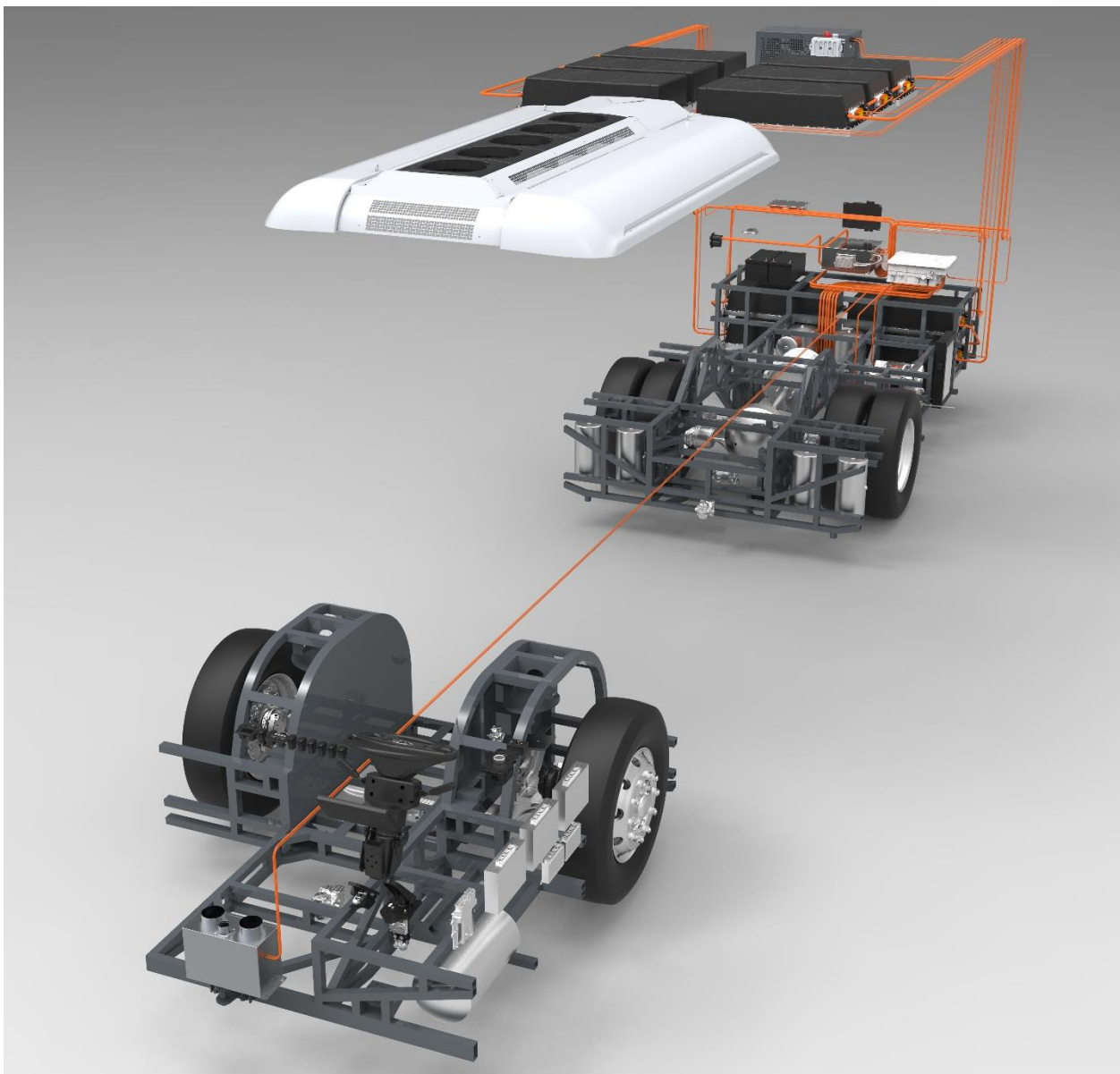
GW6120BEVLE01



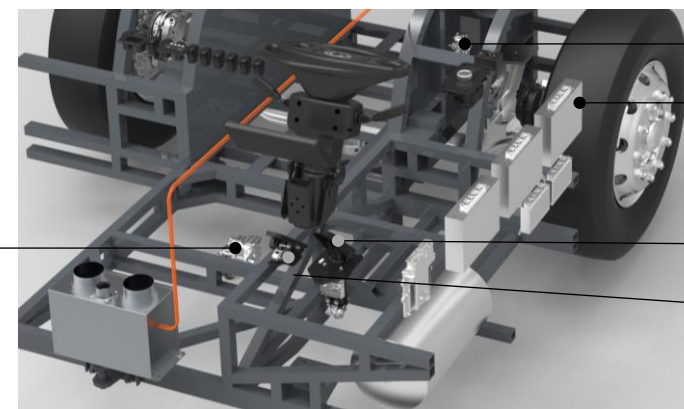
GW6120BEVLE01



GW6120BEVLE01



ECAS front module



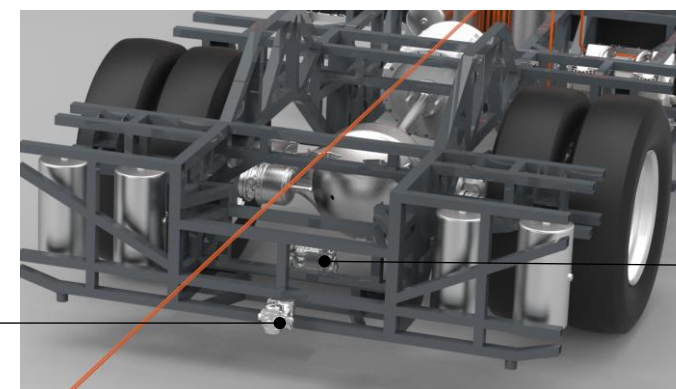
ABS valve

BCM

Braking pedal

Accelerator pedal

ECAS rear module



EBS rear module

GW6120BEVLE02

Dimension and Weights

Overall chassis length (approx.), mm	10,500-12,500(Customized)
Overhang, Front(Customer-tailored)/Rear(Fixed), mm	2320/3312
Approved wheelbase, mm	5400 - 6200
Overall width, mm	2500 - 2550
Recommended/Technical Permitted GVW, kg	≤19,000/20,500

Axles, suspension and steering

Front Axle	Option1: ZF Rigid Front Suspension / Meritor Option2: ZF Independent Front Suspension / Meritor
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Power steering and Wheel Position	Electric hydraulic power steering, LHD/RHD
Tyres	275/70R22.5

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Electric Powertrain

Driving Motor	
Rated power	165 kW
Peak power	240 kW
Maximum speed	3300 rpm
Peak torque	3200 N.m
Cooling type	water-cooling
Weight	≤280 kg
Battery Package / System	
Type	LFP, Li-iron Phosphate Battery Battery package energy density≥155Wh/kg
Capacity	Recommended: 350.1 kWh, with 10modules Optional: 281.9 kWh, with 8modules Optional: 422.9 kWh, with 12 modules
Cooling type	Water-cooling
Weight	221 kg per battery module
Life cycle	After 8years/600,000km(water-cooling), Battery capacity decay ≤20%

Driver's environment

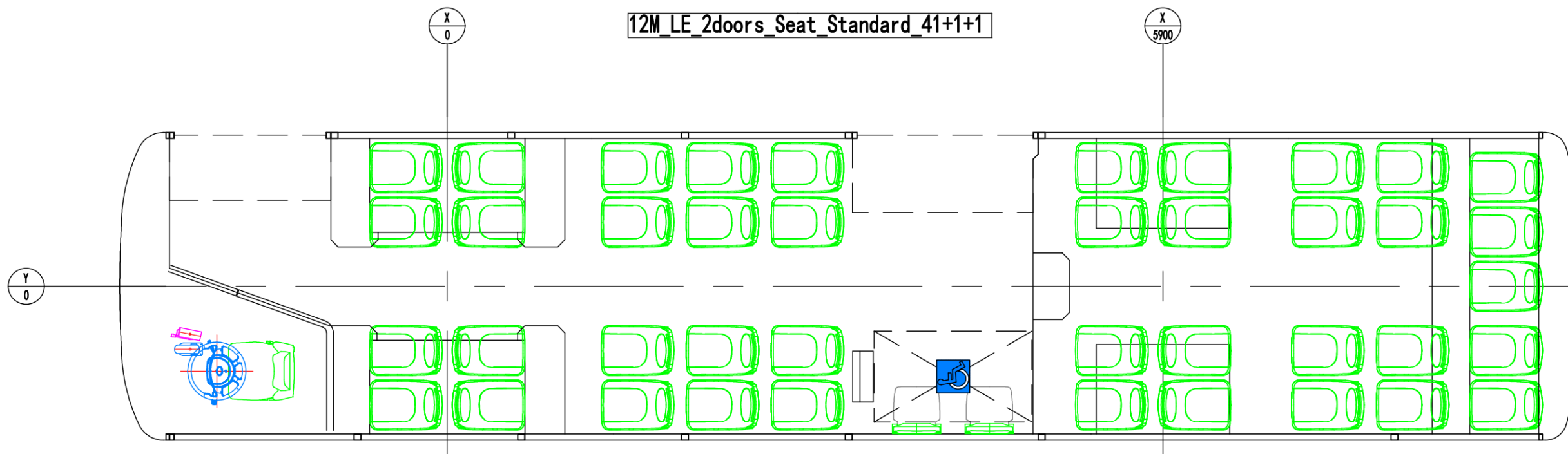
Ergonomic design with easy-reach controls.
Adjustable driver's seat and steering wheel.

Body Control System(Body E&E)

Integrated with Electric Powertrain with Body Control Modules, More convenient for bus manufacturers and cost cut-down.



GW6120BEVLE02



GW6120BEVLF01 & GW6120BEVLF02

GW_Electric Chassis_LF

Model	GW6120BEVLF01, 4x2
Dimensions and Weights	
Chassis Type	LF, Low-Floor
Driver Compartment Placement	LHD/RHD
Dimension(L*W*H), mm	11745×2500×2220(with 5900 wheelbase)
Approved Wheelbase, mm	5400~6200
Chassis Overhang F/R, mm	2540(customer-tailored)/3305(Fixed)
Wheel Track F/R, mm	2112/1857
Approach/Departure Angle, °	7/7
Min Ground Clearance, mm	126
Tyres size	275/70 R22.5
Kerb Weight of Chassis, kg	<5500 (excluding high voltage battery system and HVAC)
Axle Load, max. permissible F/R, kg	8,000 / 13,500

Body Control System(Body E&E)

Integrated with Electric Powertrain with Body Control Modules, More convenient for bus manufacturers and cost cut-down.

Bus Performances

Driving Range(With HVAC on)	>250
Max. Speed, km/h(Software limited)	80(50-80,customer-tailored)
Max. Gradeability, %	>22%@18T, Final Reduction Ratio:6.19
Turning Dimeter, m	<24 @ (Wheelbase,5900mm)

Charging System

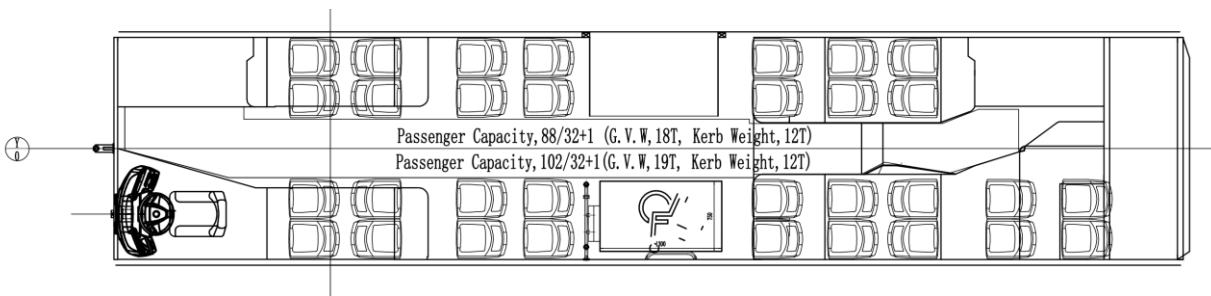
Number of Charging port and position	1(200A) or 2(2*200A) inlets in one location
CCS max. charge power(kW)	150kW(Single inlet)/300kW(dual inlets)
Charging Type	COMBO CCS type2
Opportunity Charging	Pantograph is Optional

Battery Package System

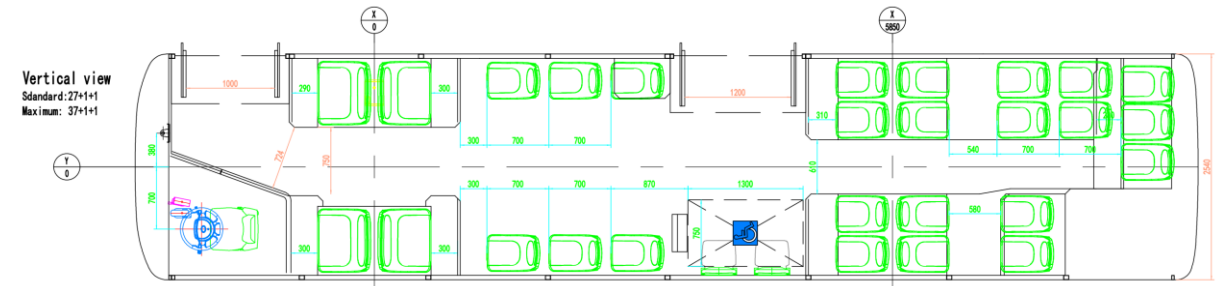
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Capacity	281.9 kWh, with 8modules 350.1 kWh, with 10modules 422.9 kWh, with 12 modules
Cooling type	Water-cooling
Weight, kg	221 kg per battery module
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GW6120BEVLF01 & GW6120BEVLF02

Passenger Capacity (Recommended), Accessibility & Friendability		
Items	GW6120BEVLF01	GW6120BEVLF02
Total passenger carrying capacity (ECE R107)	88+1 +1 (@G.V.W,18T, Kerb Weight,12T) 102+1+1 (@G.V.W,19T, Kerb Weight,12T)	88+1 +1 (@G.V.W,18T, Kerb Weight,12T) 102+1+1 (@G.V.W,19T, Kerb Weight,12T)
of which seats	32	37
of which standees	56 (@G.V.W,18T, Kerb Weight,12T) 70 (@G.V.W,19T, Kerb Weight,12T)	51 (@G.V.W,18T, Kerb Weight,12T) 65 (@G.V.W,19T, Kerb Weight,12T)
incl. Combo seats	0 (Optional)	0 (Optional)
Numbers of Area for disables	1	0 (Optional)
Direction of seats	Forward:24, Backward:8	Forward:29, Backward:8
Doors configuration	2-2-0, 2-2-2	2-2-0, 2-2-2

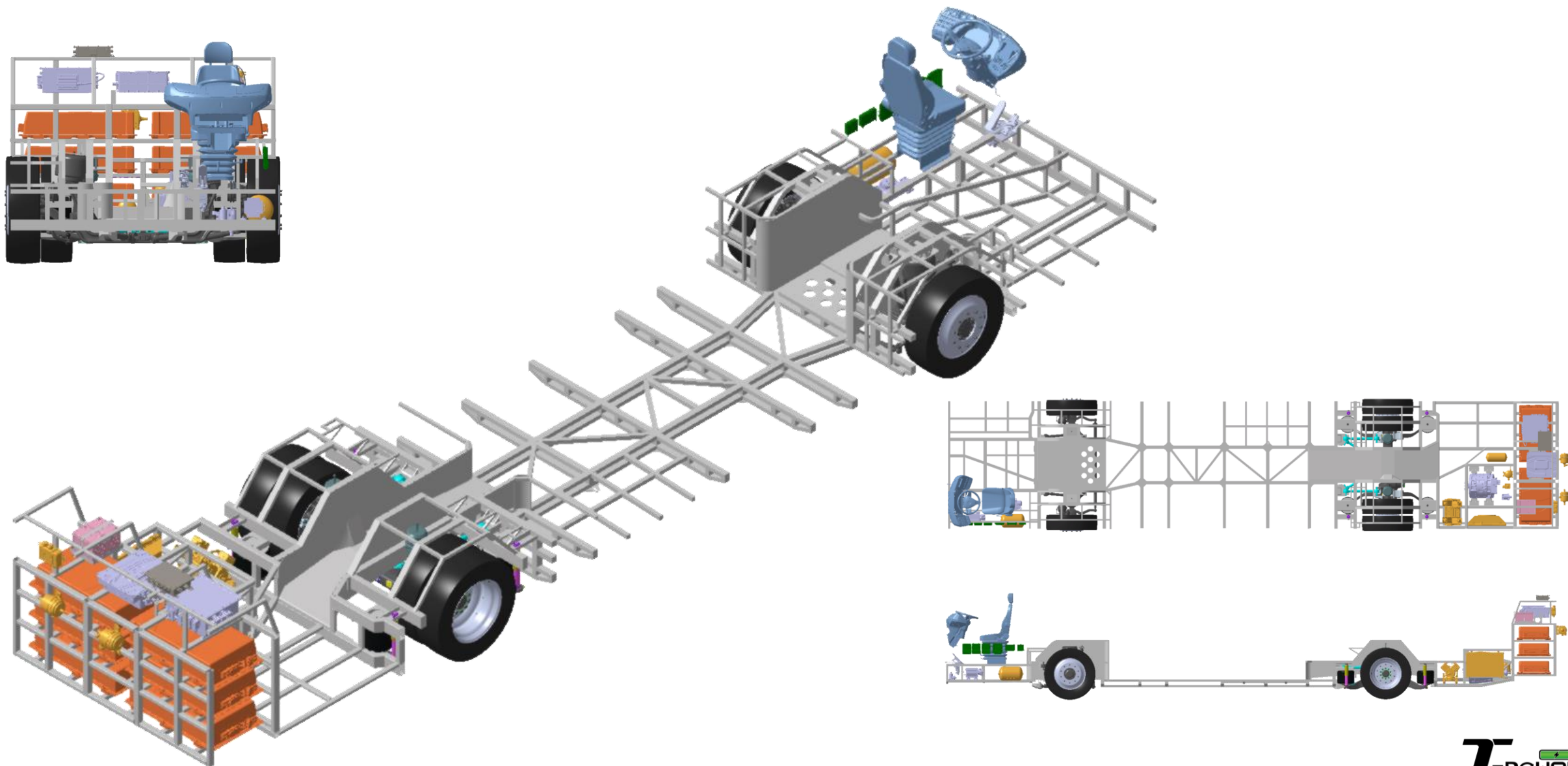


GW6120BEVLF01, Seats layout(Suggested, for reference)

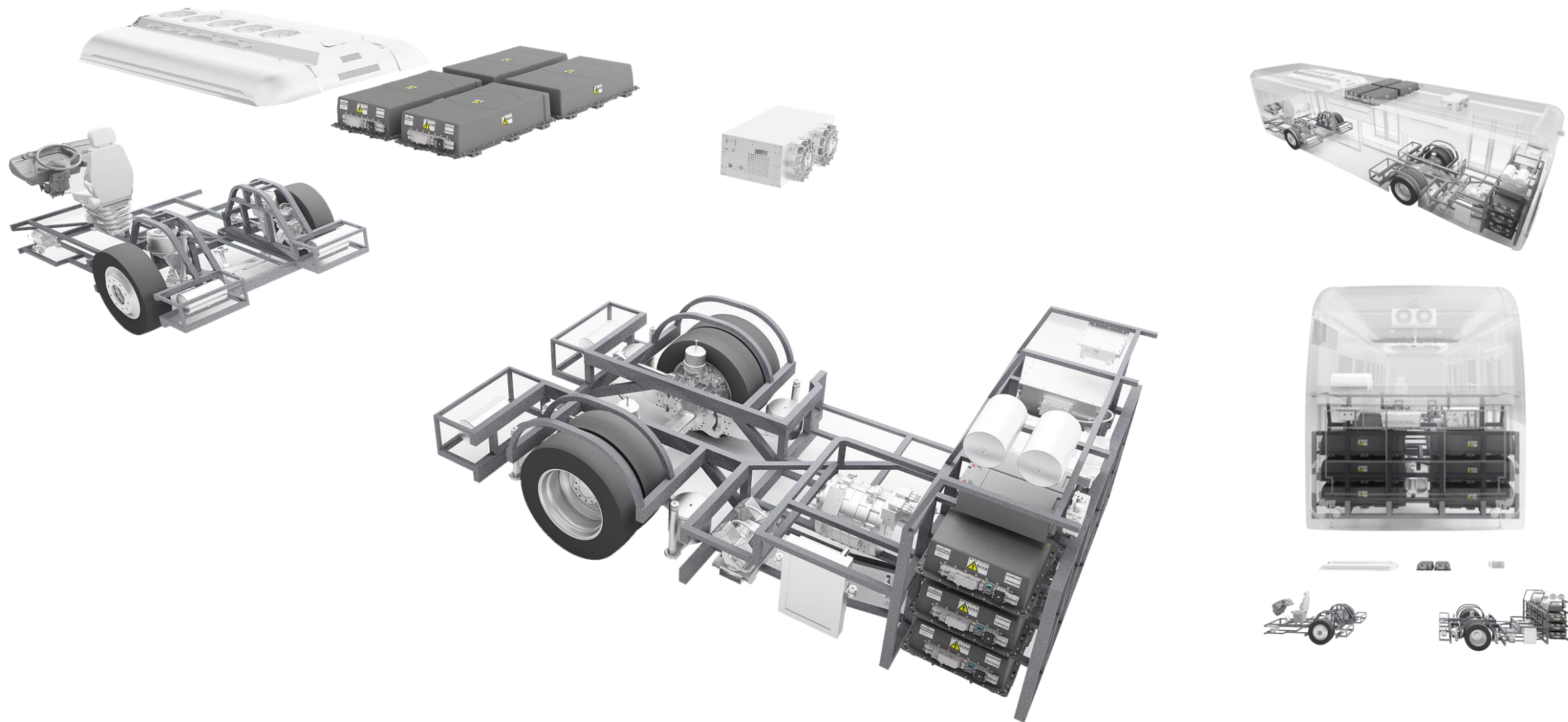


GW6120BEVLF02, Seats layout, 2 doors

GW6120BEVLF01



GW6120BEVLF01 (Separated: FOH, ROH, RAM)



GW6120BEVLF01 (United as a Whole Electric Chassis)

