

BROGEN



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Shanghai OE Industrial Co., Ltd.

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SHANGHAI OE INDUSTRIAL CO., LTD.

Leading Provider of EV Powertrain Solutions



ABOUT US

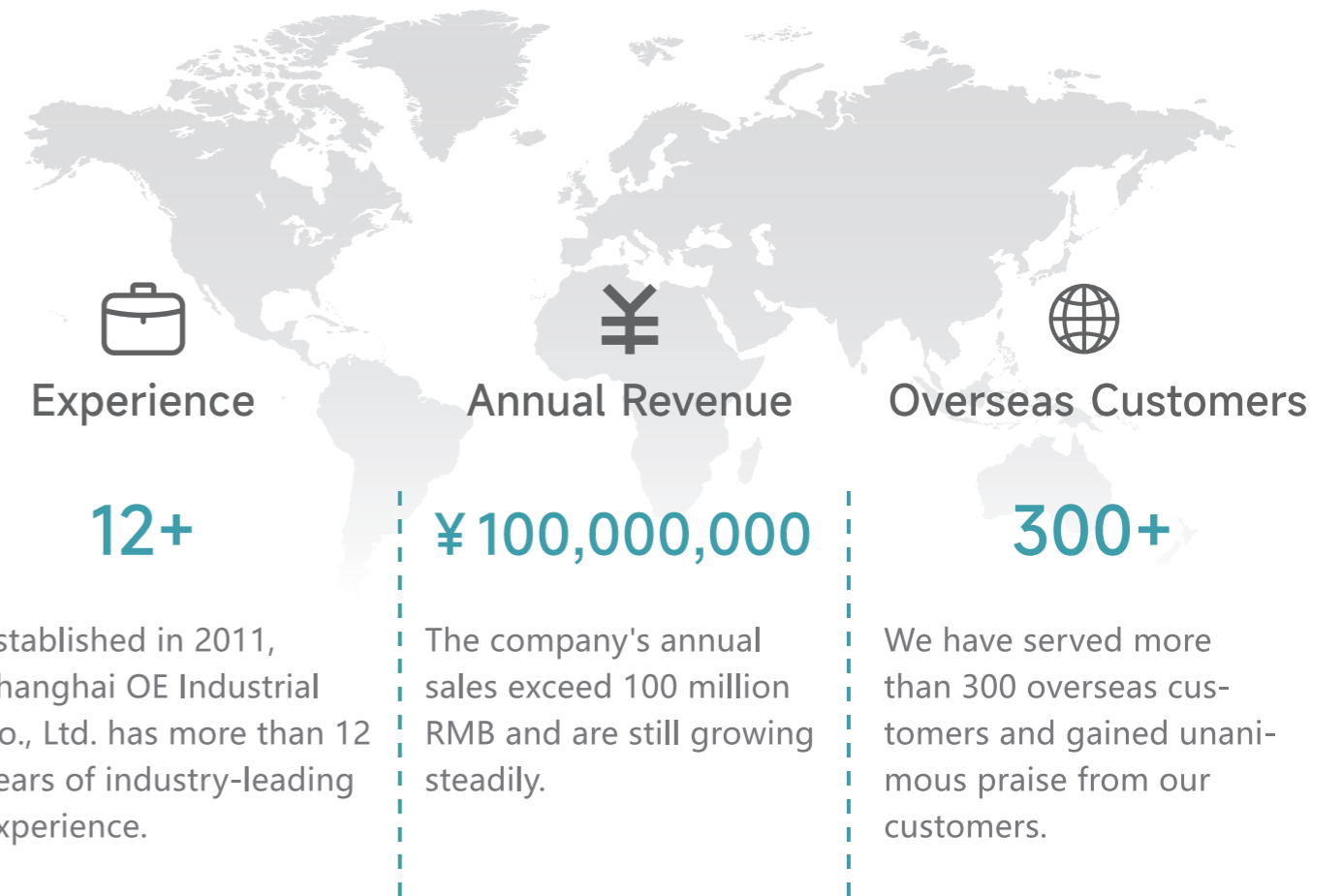
Shanghai OE Industrial Co., Ltd. (Brogen) stands as a leading provider of electric vehicle powertrain solutions, leveraging over 12 years of unparalleled industry expertise. With an illustrious track record of serving diverse businesses on a global scale, we have firmly established ourselves as a trusted and pioneering force within the electric vehicle market.

Our dedicated commitment revolves around empowering companies to thrive in the highly competitive EV industry. We offer a comprehensive suite of ePowertrain solutions and services, ranging from pre-sales solution consulting to online assistance and on-site support.

Our competitive edge is derived from the expansive scope of our product portfolio, which encompasses PMSM motors, MCUs, batteries, OBCs, DCDC converters, PDUs, e-axles, and other crucial EV automotive components. This broad selection enables us to deliver seamlessly integrated and customized powertrain solutions, meticulously tailored to meet the unique requirements of each valued client.

At the core of our ethos are unwavering principles of integrity, quality, and an enduring commitment to customer satisfaction. Each project we undertake is infused with a tireless pursuit of excellence, ensuring that our clients receive cutting-edge electric powertrain systems that establish new industry benchmarks.

Collaborate with us as we collectively forge the path towards cleaner, more efficient, and environmentally responsible mobility solutions. Together, we chart a course towards a sustainable future.



Globalization

Globalization

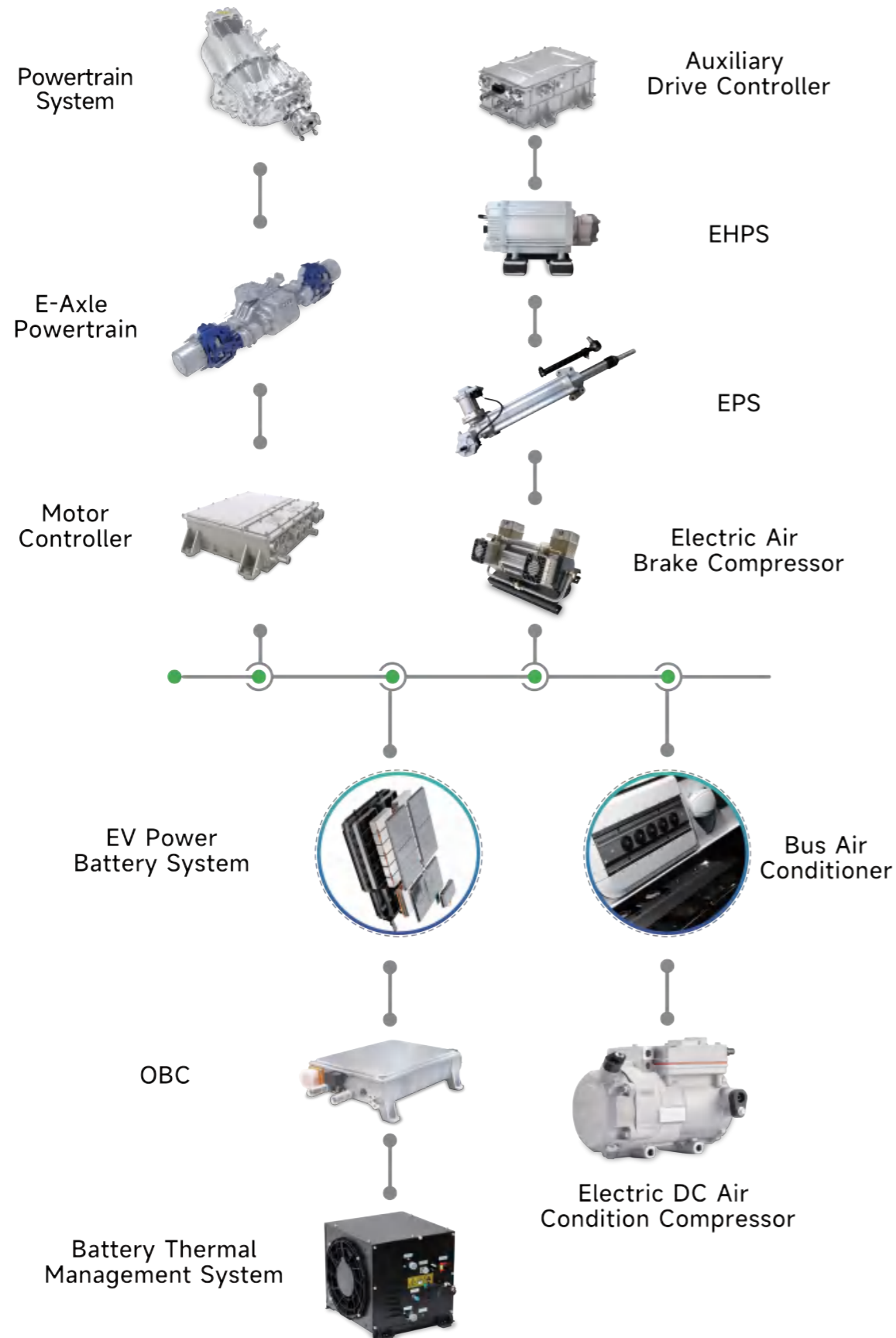


● Our Clients

United States, Canada, Mexico, Argentina, Brazil, Ecuador, Russia, Turkey, Iran, Germany, Poland, Spain, Portugal, Israel, Australia, New Zealand, Japan, South Korea, Indonesia, India, Thailand, Egypt, South Africa.

Our product line includes solutions designed to withstand diverse and challenging environments, including high temperatures, extreme cold, high humidity, high altitudes, wide temperature fluctuations, mountainous terrain, regions prone to heavy rainfall, and bustling megacities.

All Products



Brogen Solutions



Solutions for Commercial Vehicles

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Solutions for Passenger Vehicles

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Explore our comprehensive range of electric powertrain solutions engineered to revolutionize heavy trucking, offering immense power, long-range capabilities, and reduced emissions for a sustainable future. The product applications range from 18 tons to 100 tons.

Heavy Trucks Powertrain Solutions

Solution for 12-18T Trucks

Motor + Controller



BG-HT1062	
Voltage (VDC)	540
Rated/Peak Power (KW)	105/165
Rated/Peak Torque (N·m)	500/1000
Max Speed (RPM)	4000
Total Weight (KG)	170
Peak Current (A)	420

Motor + Gearbox



BG-HT1061 Motor Parameters	
Model	TZ350XSK02
Rated Voltage (VDC)	560
Rated/Peak Power (KW)	120/185
Rated/Peak Torque (N·m)	600/1000
Max Speed (RPM)	3500 (adjustable)

PTO (Optional)	
Max Output Torque (N·m)	500
Ratio	1.25

Powertrain Parameters	
System Output Torque (N·m)	6706

System Parameters				
Max Input Torque (N·m)	1200			
Max Input Speed (RPM)	4000			
Gear	1	2	3	4
Ratio	6.706	3.499	1.881	1.00

Controller (Single or Multiple in 1)	
Option 1	Single Controller: 600A Infineon IGBT
Option 2	Multiple in 1: DCDC, 2 DCAC, PDU

Solution for 18-25T Trucks

Motor + Controller



BG-HT1063

Voltage(VDC)	520
Rated/Peak Power (KW)	250/500
Rated/Peak Torque (N·m)	2400/4800
Max Speed (RPM)	3000
Highest Efficiency (%)	≥97
Dimension (MM)	Φ420

E-Axle



BG-AX026 Motor

Rated/Peak Power (KW)	125/250
Rated/Peak Torque (N·m)	350/800
Max Speed (RPM)	9000

Gearbox

Gear	1	2
Ratio	13.203	4.367

System

Wheel Side Ratio	3.947(3.478 only works for DeepWay)
Max Output Torque (N·m)	41690
Max Output Speed (RPM)	522
Total Weight (KG)	1020
Total Weight (KG)	13000

Solution for 18-25T Trucks

Motor



BG-HT1064 Motor

Model	TZ350XS250K01
Rated Voltage (VDC)	560
Rated/Peak Power(KW)	140/250
Rated/Peak Torque (N·m)	600/1200
Max Speed (RPM)	3000 (Adjustable)

BG-HT1064 Gearbox

Max Input Torque (N·m)	1500					
Max Input Speed (RPM)	3000					
Gear	1	2	3	4	5	6
Ratio	7.05	4.13	2.52	1.59	1.00	0.78

BG-HT1064 Controller

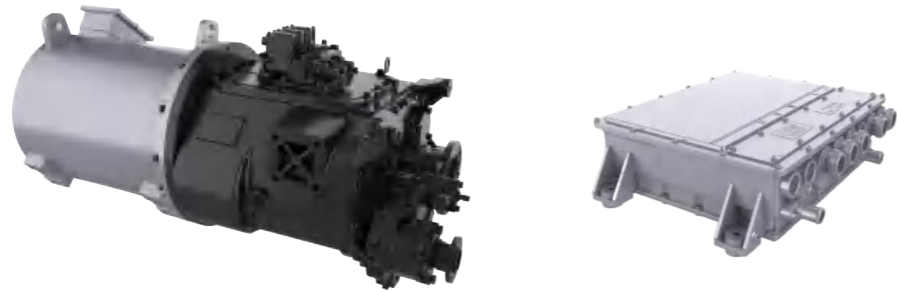
Model No.	KTZ65X55S01
Voltage Range (VDC)	400~750
Continuous Current(A)	310
Peak Current (A)	520

BG-HT1064 PTO (Optional)

Max Output Torque (N·m)	300
Ratio	1.06

Solution for 25-40T Trucks

Motor + Gearbox



BG-HT1065 Motor

Rated/Peak Power (KW)	250/380
Rated/Peak Torque (N·m)	1200/2400
Max Speed (RPM)	3500

BG-HT1065 System

Max Output Torque (N·m)	20136
Total Weight (KG)	420

BG-HT1065 Gearbox

Gear	1	2	3	4
Ratio	8.39	3.54	1.74	1.00

PTO(Optional)

Max Output Torque (N·m)	500/700
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E-Axle Integrated with Double Motors



BG-AX009

Power (KW)	2*180/2*80
Voltage (VDC)	540
Torque (N·m)	2*500/2*250
Peak Speed (RPM)	9500
Total Weight (KG)	1100
Rated Load (KG)	13000
Ratio	49.4/15.3

Solution for 40T Heavy Trucks

Motor + Controller



BG-HT1064 Motor

Voltage (VDC)	610
Rated/Peak Power (KW)	330/450
Rated/Peak Torque (N·m)	1500/2800
Max Speed (RPM)	3500
Highest Efficiency (%)	≥97
Dimension (MM)	Φ440*630

E-Axle Integrated with Double Motors



BG-AX009

Power (KW)	2*180/2*80
Voltage (VDC)	540
Torque (N·m)	2*500/2*250
Peak Speed (RPM)	9500
Total Weight (KG)	1100
Rated Load (KG)	13000
Ratio	49.4/15.3

Solution for 40T Heavy Trucks

Motor+Gearbox



BG-HT1066 Motor

	Motor 1	Motor 2
Rated/Peak Power (KW)	150/230	150/230
Rated/Peak Torque (N·m)	750/1500	750/1500
Max Speed (RPM)	3500	3500

BG-HT1066 Gearbox

Gear	1	2	3	4
Ratio	8.39	1.74	3.54	1.00

BG-HT1066 System

Max Output Torque (N·m)	20136 (1200 of each motor when both motors work)
Total Rated/Peak Torque (KW)	300/460

BG-HT1066 PTO (Optional)

Max Output Torque (N·m)	500
Max Output Power (KW)	110



Welcome to our advanced electric powertrain solutions for buses, where innovation meets reliability. Provide more stable power and a more responsive, safer steering experience for urban and intercity bus fleets(6m-18m).

Bus/Coach Powertrain Solutions

Solution for 6-7M Bus

Motor+Controller



BG-BS1028

Voltage (VDC)	520
Rated/Peak Power (KW)	80/160
Rated/Peak Torque (N·m)	800/1600
Max Speed (RPM)	3000
Maximum Motor Efficiency (%)	≥97
Overall Dimensions(MM)	Φ372*330

Parallel Axis Electric Drive Axle



BG-AX027

Motor	Voltage (VDC)	540
	Rated/Peak Power (KW)	65/120
	Rated/Peak Torque (N·m)	170/355
System	Maximum Output Torque (N·m)	5780
	Rated Load (KG)	6000
	Weight (KG)	329

Solution for 8-9M Bus

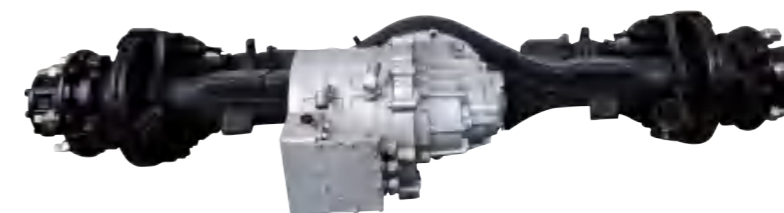
Motor + Controller



BG-BS1026

Rated/Peak Power (KW)	90/195
Rated/Peak Torque (N·m)	900/2100
Max Speed (RPM)	3500
Weight (KG)	195
Overall Dimensions(MM)	Φ415 X 433

Parallel Axis Electric Drive Axle



BG-AX028

Motor	Voltage (VDC)	540
	Rated/Peak Power (KW)	80/160
	Rated/Peak Torque (N·m)	200/450
System	Maximum Output Torque (N·m)	9213
	Rated Load (KG)	6000
	Weight (KG)	415

Solution for 8-9M Bus

Motor + Gearbox



BG-HT1034

Rated/Peak Power (KW)	120/185
Rated/Peak Torque (N·m)	500/1300
Max Speed (RPM)	3500

Gearbox Parameters

Gear	1	2
Ratio	2.741	1

System Parameters

Maximum Output Torque (N·m)	3380
Weight (KG)	174
Length * Width * Height(MM)	636X56X549

PTO Parameters (Flange Type or Spline Type Optional)

Total Gear Ratio	1.148
Rated/Peak Torque (N·m)	120/200
Rated/Peak Power (KW)	20/40

Solution for 10-13M Bus

Motor + Controller



BG-BS1027

Voltage (VDC)	520
Rated/Peak Power (KW)	120/240
Rated/Peak Torque (N·m)	1200/2400
Max Speed (RPM)	3000
Maximum Motor Efficiency (%)	≥97
Overall Dimensions(MM)	Φ372*430

E-Axle



BG-AX002

Rated/Peak Power (KW)	2* 80/2*160
Voltage (VDC)	540
Rated/Peak Torque (N·m)	2* 220/2 * 580
Motor Max Speed (RPM)	8000
Bridge Axle (KG)	1127
Rated Load (KG)	14000
Gear Ratio	18.58

Solution for 10-13M Bus

Motor + Gearbox



BG-HT1035

Rated/Peak Power (KW)	110/210
Rated/Peak Torque (N·m)	500/1100
Max Speed (RPM)	4500

Gearbox Parameters

Gear	1	2
Ratio	2.741	1

System Parameters

Maximum Output Torque (N·m)	3015
Weight (KG)	174
Length * Width * Height (MM)	595X 516X 549

PTO Parameters (Flange Type or Spline Type Optional)

Total Gear Ratio	1.148
Rated/Peak Torque (N·m)	120/200
Rated/Peak Power (KW)	20/40

Solution for 14-18M Bus

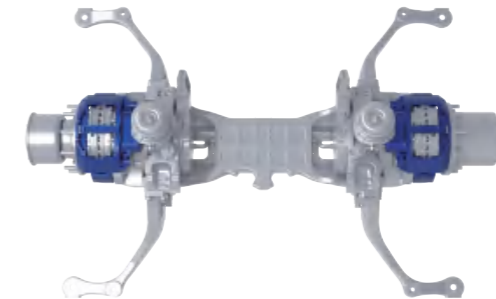
Motor + Controller



BG-HT1063

Voltage (VDC)	520
Rated/Peak Power (KW)	250/500
Rated/Peak Torque (N·m)	2400/4800
Max Speed (RPM)	3000
Maximum Motor Efficiency (%)	≥97
Overall Dimensions(MM)	Φ440*780

E-Axle



BG-AX002

Rated/Peak Power (KW)	2* 60/2*160
Voltage (VDC)	540
Rated/Peak Torque (N·m)	2* 220/2 * 580
Motor Max Speed (RPM)	8000
Axle Weight (KG)	1127
Rated Load (KG)	14000
Gear Ratio	18.58

Other Components for Heavy Trucks/Buses

EV Battery Pack

420kWh, 350kWh and 280kWh (8 battery boxes + 1 high voltage box + 1 cooling unit) solutions or customized battery system.



Air Brake Compressor

Rated Power (KW)	3	4
Rated Exhaust (L/min)	250	400



EHPS

Rated Power (KW)	3	4
Rated Torque (N·m)	19.1	34.2



3-in-1 Controller for Auxiliary

DC/AC for power steering pump;
DC/AC for air brake compressor;
DC/DC 3-in-1 controller with connectors (5.5KW, 380VAC, 24VDC, 3KW DCDC)



Other Components for Heavy Trucks/Buses

EPS



Maximum output rack force: 18KN

Air Conditioner System

Normal Cooling Capacity:
23KW/20KW/18KW/16KW;

Bus Length:
10.5-12.0M; 9.5-10.4M; 8.9-9.4M.



Air Conditioner Compressor

Displacement (cc/rev)	80	34
Rotated Speed Range (RPM)	3000-6000	1500-6000
Refrigerating Capacity (KW)	19.2	5.8



Battery Thermal Management System

Cooling Capacity: 5KW/7KW/8KW
Refrigerant Type: R134a/R410a/R134a



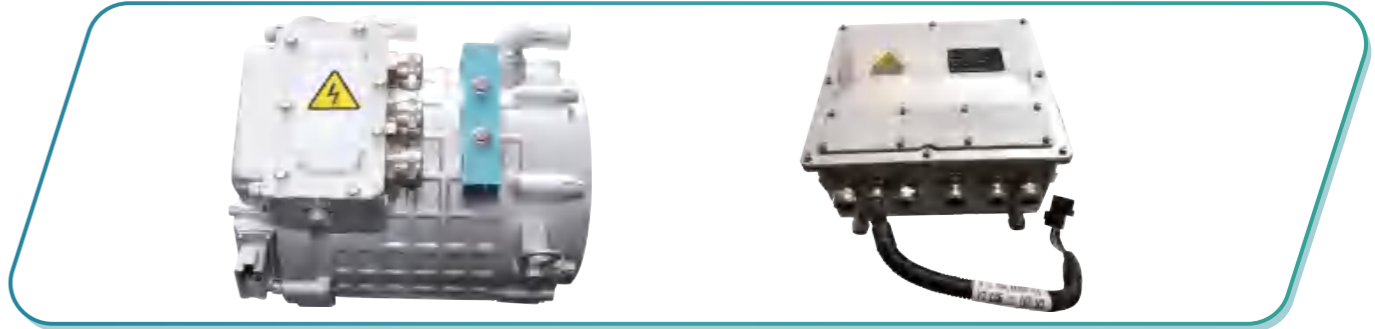


Discover our cutting-edge electric powertrain solutions designed for light-duty trucks that optimize vehicle layout, reduce size and weight, and increase load capacity. Providing superior performance and efficiency to meet the demands of modern transportation.

Light Trucks Powertrain Solutions

Solution for 1.5-2.5T Trucks

Motor+Controller



Motor Parameters

Model	T2230xS-25-03
Rated/Max Power (KW)	25/60
Rated/Max Torque (N·m)	133/350
Rated/Max Speed (RPM)	1800/4500

Controller Parameters

Rated Voltage (VDC)	340
Voltage Range (V)	200-450
Current Module (A)	255
Rated Current (A)	93

Integrated Electric Drive Axle



C220C

Axle Load (KG)	2000
Max Output Torque (N·m)	1800
Max Output Power (KW)	60
Wheel Speed (RPM)	1000
Speed Ratio	9
Axle Weight (KG)	105
Protection Class	IP67
Coolant	50% glycol + 50% water
Motor Type	PMSM motor
Rated Voltage (VDC)	336

Solution for 1.5-2.5T Trucks

3 in 1 Powertrain



Motor Parameters

Model	C29A
Rated/Max Power (KW)	60/100
Rated/Max Torque (N·m)	120/280
Max Speed (RPM)	12000

Reducer Parameters

Speed Ratio	3.04
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System Parameters

Peak Torque (N·m)	851.2
Peak Speed (RPM)	3947
Weight (KG)	81

Controller Parameters

Voltage Range (V)	280-420
Current Module (A)	420
Weight (KG)	8

Solution for 3.5-4.5T Trucks

Motor + Controller



Motor Parameters

Model	TZ260XS 60-01
Rated/Max Power (KW)	60/110
Rated/Max Torque (N·m)	358/950
Rated/Max Speed (RPM)	1600/4500
Weight (KG)	101

Controller Parameters

Voltage Range (V)	450-750
Current Module (A)	340
Rated Current (A)	125

E-Axle



Model	C400E	C500E	C635E
Axle Load (KG)	3500	3500	3500
Max Output Torque (N·m)	4054	5068	6335
Max Output Power (KW)	110	130	160
Max Wheel Speed (RPM)	828	828	789
Speed Ratio	12.67		
Braking Type	Hydraulic / Pneumatic		
Brake	Drum		
Installation Distance (MM)	860-940		
Track (MM)	1370-1580		

Solution for 3.5-4.5T Trucks

Model	C400E	C500E	C635E
Axle Weight (KG)	260	264	272
Protection Class	IP67		
Coolant	50% Glycol + 50% Water		
Rated Voltage (V)	540		

3 in 1 Powertrain



Motor Parameters

Assembly Model	CE1T10004
Rated Voltage (V)	380
Rated/Max Power (KW)	60/100
Rated/Max Torque (N·m)	120/280
Rated/Max Speed (RPM)	4500/12000
Cooling Method	Water Cooling
Protection Level	IP67

Reducer Parameter

Speed Ratio	3.04
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Controller Parameters

Rated Voltage (V)	250-450
Current Module (A)	420
Continuous Working Current (A)	190

System Parameters

Peak Torque (N·m)	851.2
Peak Speed (RPM)	3947
Weight (KG)	81

Solution for 5.5-6T Trucks

Motor + Controller



Motor Parameters

Model	DMS120
Rated/Max Power (KW)	60/120
Rated/Max Torque (N·m)	635/1200
Rated/Max Speed (RPM)	900/3800
Weight (KG)	142

Controller Parameters

Voltage Range (V)	450-750
Current Module (A)	600
Integration	MCU

E-Axle



Controller Parameters

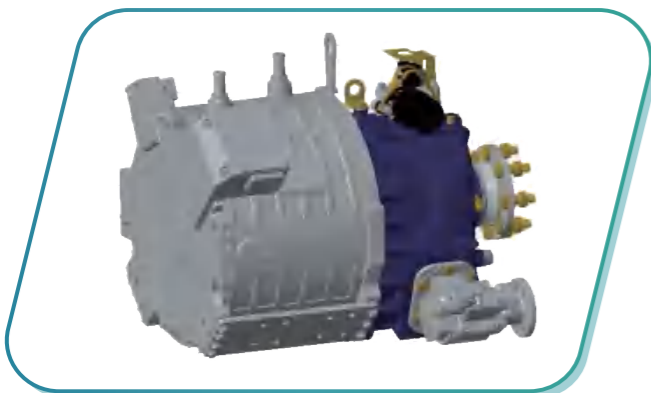
Model	C635F
Axle Load (KG)	5500
Max Output Torque (N·m)	3665

Solution for 5.5-6T Trucks

Controller Parameters

Max Output Power (KW)	160
Max Wheel Speed (RPM)	789
Speed Ratio	12.67
Braking Type	Hydraulic
Brake	Drum / Disc
Installation Distance (MM)	880-950
Track (MM)	1510-1630
Axle Weight (KG)	350
Protection Class	IP67
Coolant	50% Glycol + 50% Water
Rated Voltage (VDC)	540

Motor + Gearbox



Motor Parameters

Model	TED1360
Rated/Max Power (KW)	60/120
Rated/Max Torque (N·m)	300/500
Max Speed (RPM)	5000
Cooling Method	Liquid Cooling
Protection Level	IP67

Gearbox Parameters

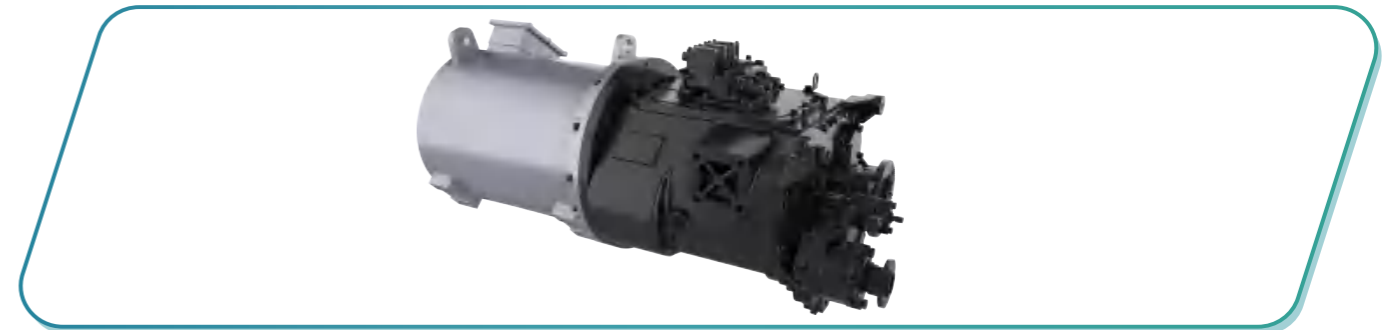
Gear	1/2
Speed Ratio	2.73/1.00

System Parameters

Peak Torque (N·m)	1365
Peak Speed (RPM)	1832
Weight (KG)	135
Size (MM)	640x374x437

Solution for 7-10T Trucks

Motor + Controller



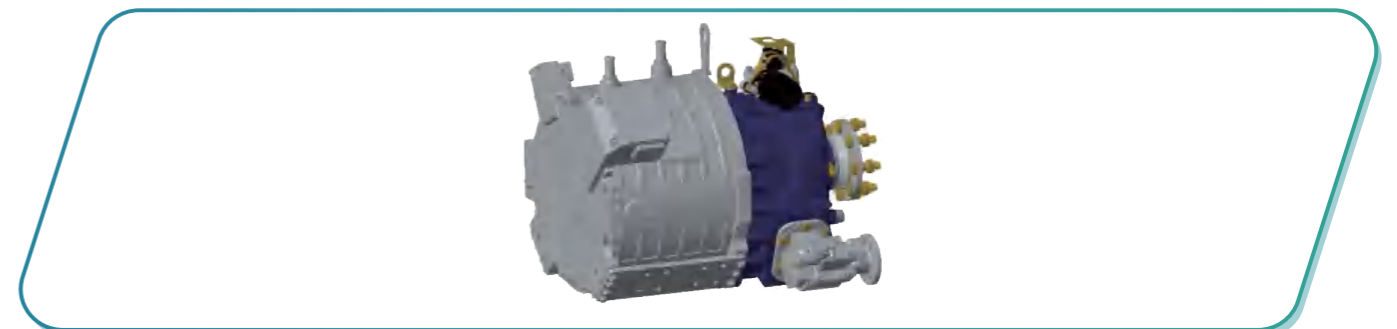
Motor Parameters

Model	2SDK290XS105A(2 in 1 motor)
Rated/Max Power (KW)	105/165
Rated/Max Torque (N·m)	500/1000
Rated/Max Speed (RPM)	2005/4000
Weight (KG)	170

Controller Parameters

Voltage Range (V)	450-750
Current Module (A)	420
Rated Voltage (V)	540

Motor + Gearbox



Motor Parameters

Model	TED2330S
Rated/Max Power (KW)	75/120
Rated/Max Torque (N·m)	350/850

Solution for 7-10T Trucks

Motor Parameters

Max Speed (RPM)	5000
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Gearbox Parameters

Gear	1/2
Speed Ratio	2.73/1.00

System Parameters

Peak Torque (N·m)	2330
Weight (KG)	147
Overall Speed Ratio	1.148
Rated/Max Output Torque (N·m)	120/200
Rated/Max Output Power (KW)	20/40



Step into the future of mobility with our state-of-the-art electric powertrain solutions for passenger cars. Refine vehicle layout, cut BOM costs and increase energy efficiency.

Passenger Vehicles Powertrain Solutions

Multi-in-1 Powertrain

6-in-1 Powertrain



Configuration	Main Parameters	70KW 6-in-1	120KW 6-in-1	150KW 6-in-1
Motor	Operating Voltage Range (V)	309	220~460	220~460
	Full Power Voltage (V)	270~420	320~450	320~450
	Max Power (KW)	70	120	150
	Continuous Power (KW)	35	50	60
	Max Torque (N·m)	160	220	280
	Continuous Torque (N·m)	75	90	110
	Max Speed (RPM)	12000	15000	16000
Reducer	Reduction Ratio	10.89	11.93	11.93
OBC	Input Voltage (VAC)	90~264	90~264	90~264
	Output Voltage (VDC)	200~420	230~450	230~450
	Continuous Power (KW)	3.3/6.6	6.6	6.6
DCDC	Input Voltage (VDC)	200~420	230~450	230~450
	Output Voltage (VDC)	14	14	14
	Continuous Power (KW)	1.5/2	2.5	2.5
PDU	OBC Interface/Fuse (A)	30	40	40
	PTC Interface/Fuse (A)	40	40	40
	AC Interface/Fuse (A)	30	20	20
	Fast Charging Interface/Contactor (A)	150	250*2	250*2
System	Max Wheel Speed (RPM)	1100	1257	1341
	Max Wheel Torque (N·m)	1742	2624	3340
	Continuous Wheel Torque (N·m)	817	1090	1312
	Protection Class	IP67	IP67	IP67

Multi-in-1 Powertrain

3-in-1 Powertrain



Model	EPT1-36	EPT1-55	EPT2-120
Operating Voltage Range (V)	240-420	240-420	240-460
Continuous Power (KW)	16	20	60
Max Power (KW)	36	55	120
Continuous Torque (N·m)	44	45	125
Max Torque (N·m)	96	115	280
Max Speed (RPM)	12000	12700	12000
Reducer Speed Ratio	10.89	10.89	9.11
Max Wheel Speed (RPM)	1102	1166	1317
Max Wheel Torque (N·m)	998	1189	2550
Continuous Wheel Torque (N·m)	446	456	1138
Cooling Method	Liquid Cooling		
EMC	Class3		
Operating Temperature	-40~85		
Protection Class	IP67		

PMSM Motor + Controller

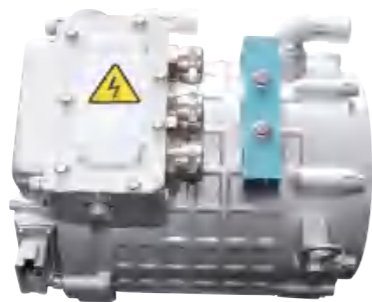
30KW/60KW



TZ180XS-30

Rated Voltage (VDC)	360/540
Continuous /Max Power (KW)	30/60
Continuous /Max Torque (N·m)	90/223
Maximum Speed (RPM)	9000
Cooling Method	Liquid Cooling

40KW/80KW



TZ180XS-40-02 Drive Motor Parameters

Rated Voltage (VDC)	360
Continuous /Max Power (KW)	40/80
Continuous /Max Torque (N·m)	100/235
Maximum Speed (RPM)	11000
Cooling Method	Liquid Cooling

PMSM Motor + Controller

100KW/200KW



TZ260XS-100-02

Rated Voltage	540V
Continuous Power	100KW
Continuous Power	200KW
Continuous Torque	215N·m
Peak Torque	550N·m
Rated Speed	4441 RPM
Peak Speed	8000 RPM
Cooling Method	Liquid Cooling

60KW/110KW



Drive Motor Parameters

Rated Voltage (VDC)	336
Continuous /Max Power (KW)	60/110
Continuous /Max Torque (N·m)	191/400
Maximum Speed (RPM)	3000/8500
Cooling Method	Liquid Cooling

Other Components for Light Trucks/Passenger Cars

EV Battery Pack

40kwh, 60kwh solution or customized battery system.



OBC

6.6KW 2 in 1; 11KW 2 in 1;
6.6KW 3 in 1 (OBC+DCDC+PDU).



EHPS

Low Voltage (V)	12
Rated Power (KW)	0.5
Flow Range (L/MIN)	5-9.5
Pressure Range (MPA)	12



Air Conditioner Compressor

Displacement (cc/rev)	18
Rotated Speed Range (RPM)	2000-6000
Refrigerating Capacity (KW)	2.9



Other Components for Light Trucks/Passenger Cars

EPS

Maximum output rack force:
4/6/7/11/12KN



Water Pump

50W, 80W and 100W water pumps.



DCDC

Range of Input Voltage	110V-180V
Rated Output Power	1.2 KW
Rated Output Voltage	27.5V
DC/DC Type	Isolated Type



Project Cases



Exported low-chassis truck powertrains to Australia.



Implemented a direct-drive powertrain system in vans.



Introduced the Middle East's first electric bus with our wheelside electric axle solution.

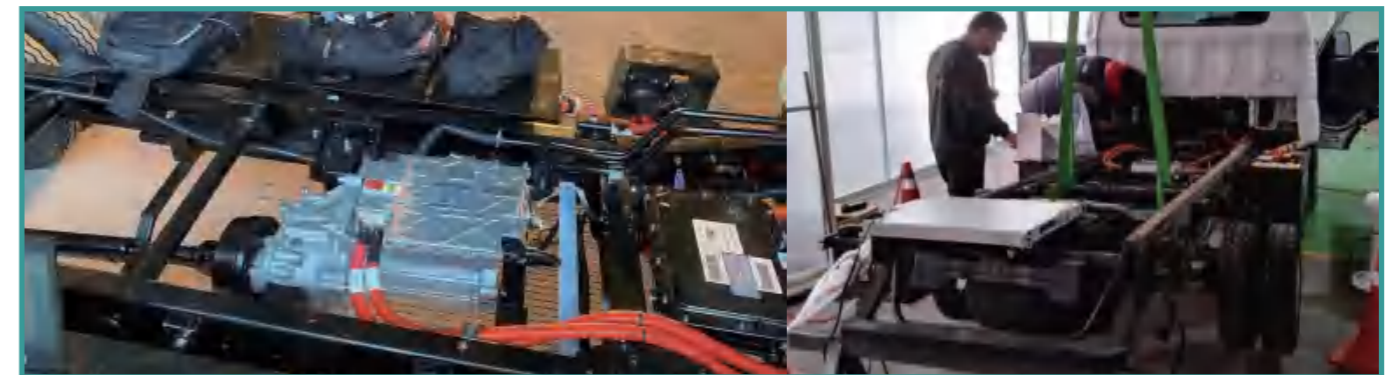
Project Cases



Powered Spain's first electric boat (13M, 60T) with our propulsion system and EVE battery.



Developed a 40-ton semi-truck prototype in India, integrating a 350KW motor with a fast 6-speed gearbox.



Supplied well-known Korean Airlines with a 120KW drive motor, EHPS and DCDC for light trucks at the airport.

