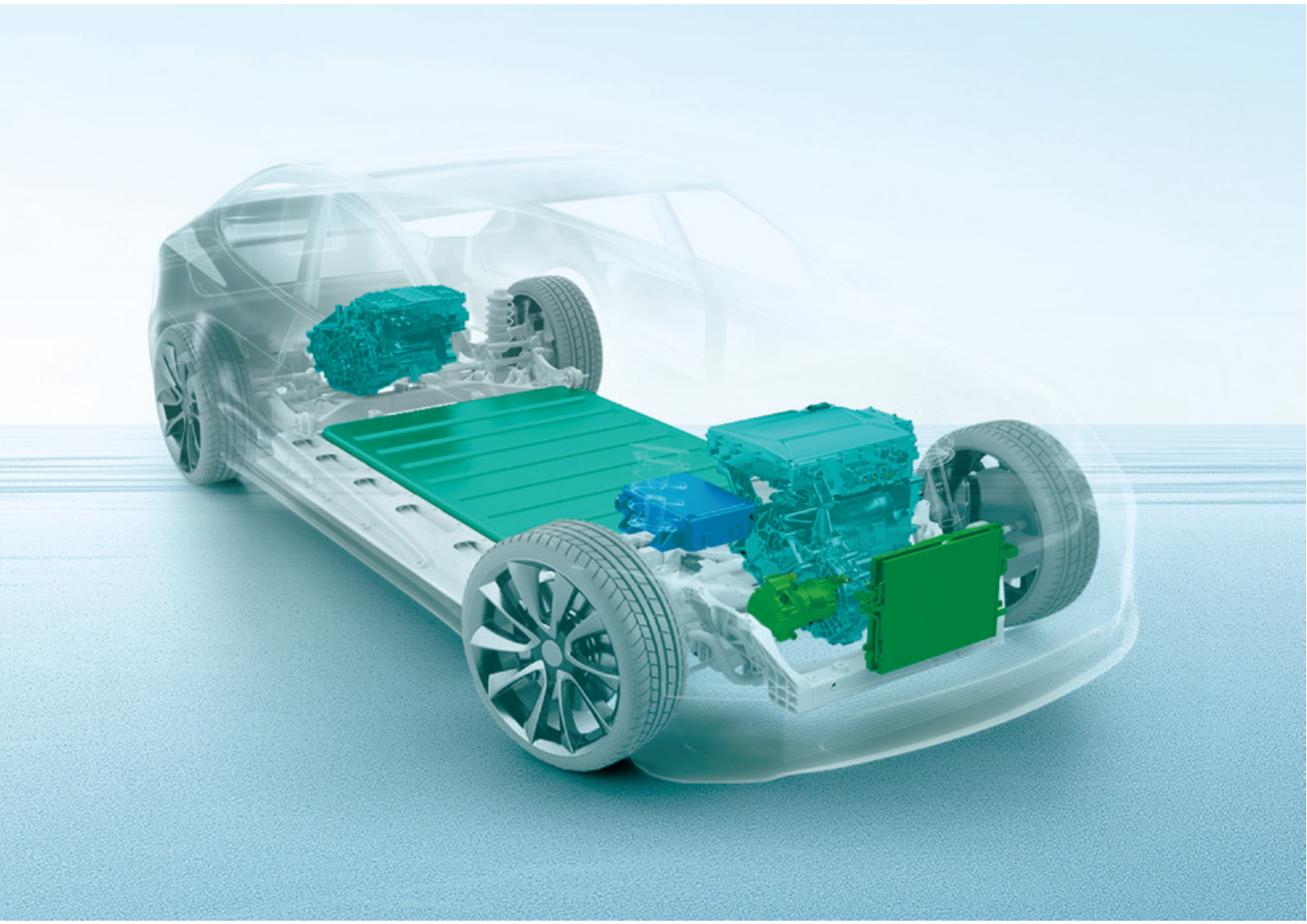
MEGMEET

E-Mobility Solutions

Engineered to Empower™ Smarter, Faster, and More Reliable EV Solutions

MEGMEET provides comprehensive solutions for electric vehicles including on-board charging systems, inverters, electric powertrains, X-in-1 integration systems, and electric compressors.



MEGMEET
Engineered to Empower™

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* DC-DC: DC-DC Converter
* OBC: On Board Charger
* PEU: Power Electronic Unit

About Us

MEGMEET is a $1.3B global power and energy company specializing in high-efficiency power solutions for datacenters, e-Mobility, healthcare, industrial automation and renewable energy. With R&D, manufacturing facilities and global operations across North America, India, Thailand, China and Germany, MEGMEET is Engineered to Empower™ the future of AI, Industrial, and e-Mobility Markets.

$1.3B USD
Revenue 2025

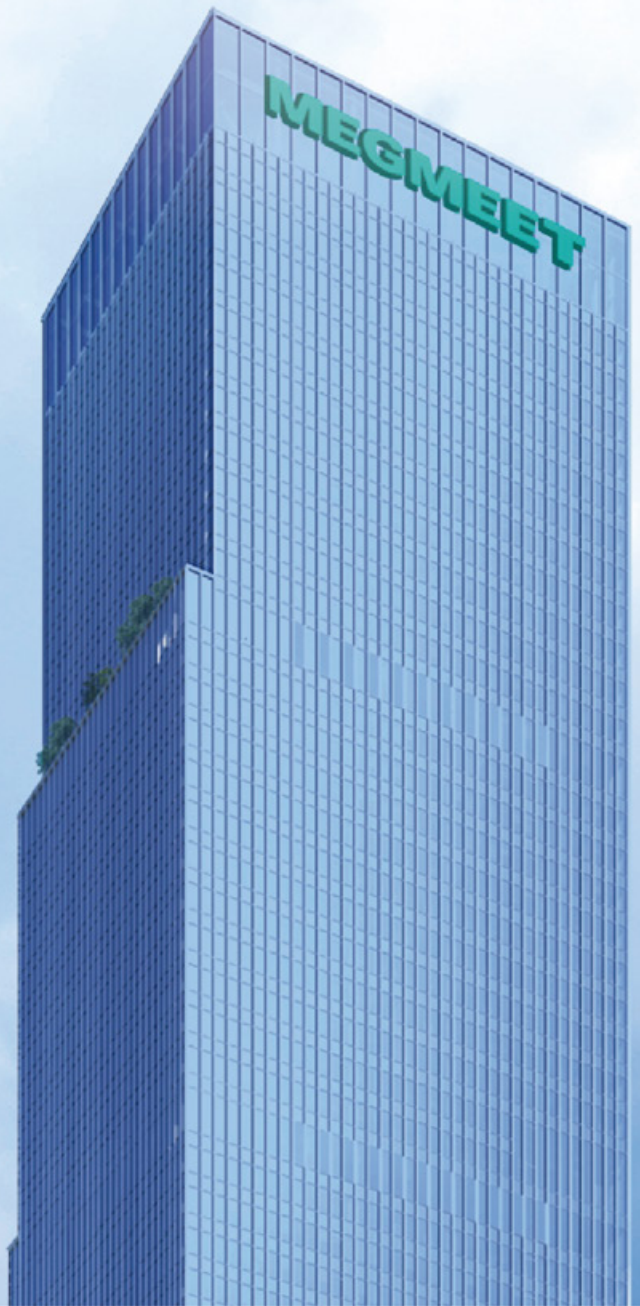
28%
Revenue CAGR
2015-2025

10
R&D Centers

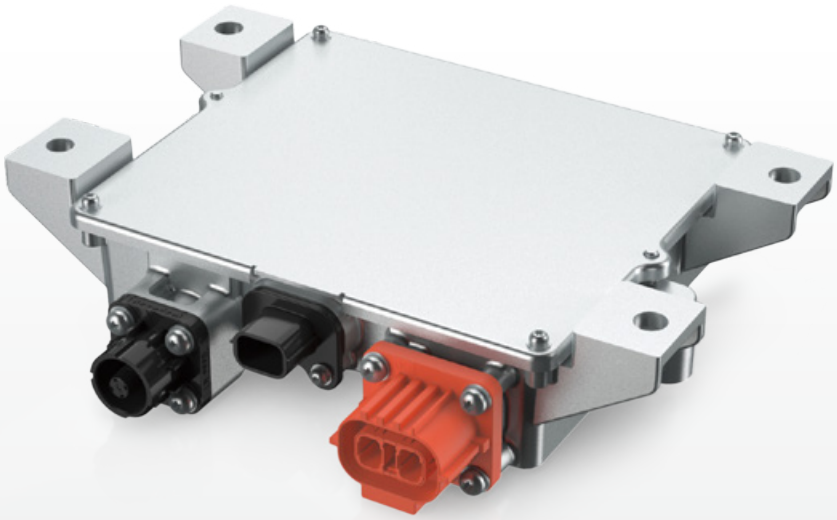
8
Manufacturing
Centers

34%
R&D Staff

10K+
Total Employees



DC-DC Module

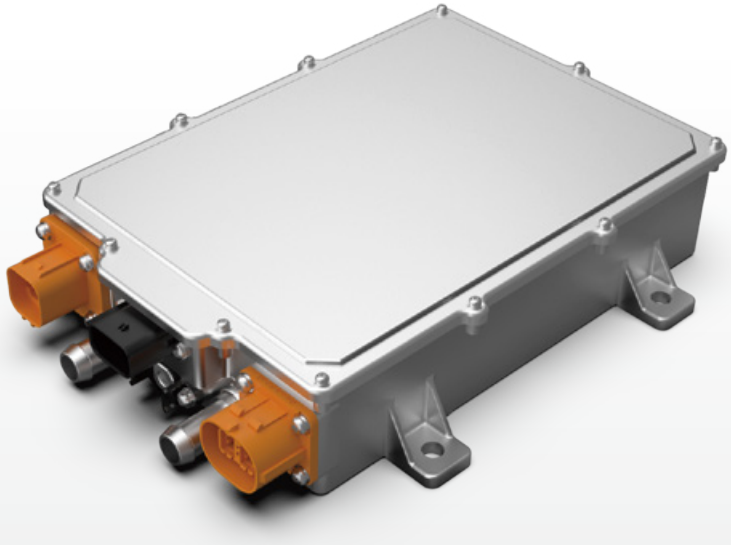


> Small size & High power density
> Safety design for HV & LV isolation
> Supporting program update via CAN bus
> Supporting sleep mode & waking up by CAN, KI15

MV0A3-G3

Parameter	DC-DC Module (MV0A3-G3)
Rated Power	3.0 kW
Input Voltage	220 to 470 VDC
Input Current	＜15 A
Output Voltage	14.5 VDC
Output Current	207 A
Efficiency	⩾ 95%
Communication	CAN & CANFD
Wake Up Function	CAN & KL15
Protection Function	UVP, OVP, OCP, OTP etc.
Working Temperature	-40 ℃ to +85 ℃
Storage Temperature	-40 ℃ to +105 ℃
LV control Range	9 to 16 VDC
Cooling	Liquid cooling
Weight	⩽ 2.3 kg
Dimension	166 × 146 × 56 (mm)
IP Ratings	IP67

6.6 kW OBC & 3 kW DC-DC Combo



> OBC & DC-DC integrated for high power density
> Safety design for HV & LV isolation
> Supporting program further update via CAN bus
> Supporting 120 / 220 VAC AC grid voltage
> IEC 61851 & GB/T 18487 fully compatible

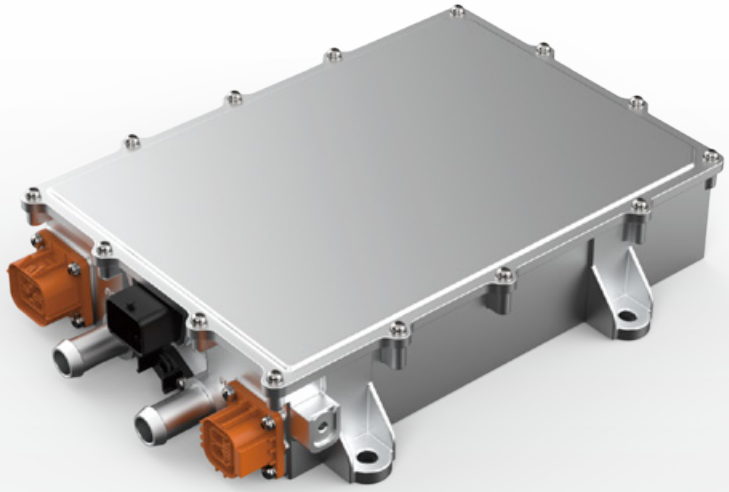
MVW4606K6-B-G3

Parameter		6.6 kW OBC & 3 kW DC-DC Combo (MVW4606K6-B-G3)
	Power	6.6 kW
	Input Voltage	85 to 265 VAC
	Output Voltage	200 to 495 VDC
	Output Current	⩽ 23 A
	THD	⩽ 5%
	Peak Efficiency	⩾ 95%
	Power Factor	⩾ 0.99
	Voltage Accuracy	⩽ ±1%
OBC Inverter Mode	Power	3.3 kVA (V2L) 6.0 kVA (V2V)
	HV Input	300 to 495 VDC
	Output Voltage	220 VAC ± 5%
	AC Frequency	50 Hz ± 1 Hz
	Output Current	27 A max
DC-DC	Power	3.0 kW
	HV Input	200 to 495 VDC
	LV Output	14 VDC
	Output Current	214 A
	Peak Efficiency	⩾ 94.5%

Parameter	6.6 kW OBC & 3 kW DC-DC Combo (MVW4606K6-B-G3)
Communication	CAN, CAN FD
Wake Up Function	CAN, KL15, CC, CP
Protection Function	UVP, OVP, OCP, OTP etc.
Output Wake Up	Yes
Inverter Function	Yes
Charge Detection	CC & CP
Working Temperature	-40 ℃ to +85 ℃
Storage Temperature	-40 ℃ to +105 ℃
Cooling	Liquid cooling
Weight	5 kg
Dimension	237 × 186 × 69 (mm)
IP Ratings	IP67

*THD: Total Harmonic Distortion
*CAN FD: CAN with Flexible Data-Rate

11 kW OBC & 3 kW DC-DC Combo



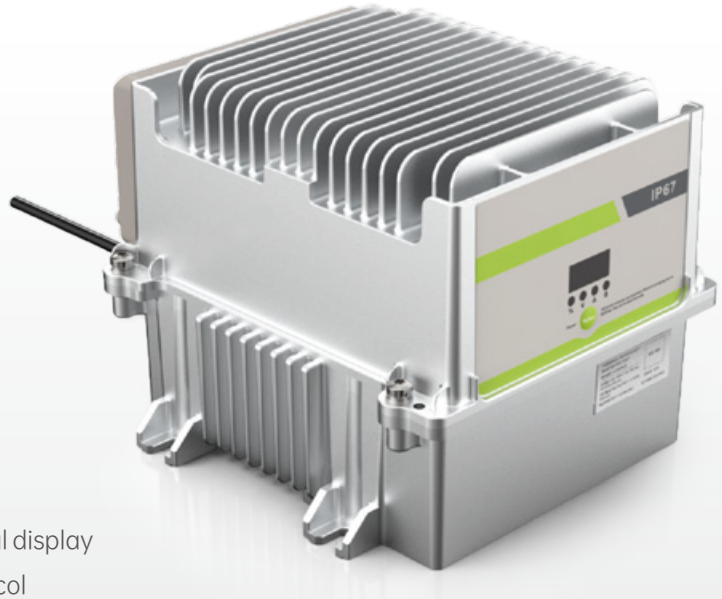
MVW40014K-B-G3

> OBC & DC-DC integrated for high power density
> Safety design for HV & LV isolation
> Supporting program update via CAN bus
> Supporting 1Ph-220 VAC / 3ph-380 VAC AC grid voltage
> IEC 61851 & GB/T 18487 fully compatible

Parameter		11 kW OBC & 3 kW DC-DC Combo (MVW40014K-B-G3)
OBC Charging Mode	Power	11 kW-3Ph / 6.6 kW-1Ph
	AC 1Ph Input	Single Phase Input: 85 to 265 VAC Three Phase Input: 304 to 456 VAC
	AC 3Ph Input	240 to 500 VDC
	Output Current	⩽32 A
	THD	⩽5%
	Peak Efficiency	⩾95.5%
	Power Factor	⩾0.99
	Voltage Accuracy	⩽±1%
OBC Inverter Mode	Power	3.3 kVA (V2L) / 6.0 kVA (V2V)
	HV Input	300 to 500 VDC
	Output Voltage	220 VAC ± 5%
	Frequency	50 Hz ± 1 Hz
	Output Current	27 A max
DC-DC	Power	3.0 kW
	HV Input	200 to 495 VDC
	LV Output	14 VDC
	Output Current	214 A
	Peak Efficiency	⩾95%

Parameter	11 kW OBC & 3 kW DC-DC Combo (MVW40014K-B-G3)
Communication	CAN, CAN FD
Wake Up Function	CAN, KL15, CC, CP
Protection Function	UVP, OVP, OCP, OTP etc.
Output Wake Up	Yes
Inverter Function	Yes
Charge Detection	CC & CP
Working Temperature	-40 ℃ to +85 ℃
Storage Temperature	-40 ℃ to +105 ℃
Cooling	Liquid cooling
Weight	7.5 kg
Dimension	326 × 232 × 73 (mm)
IP Ratings	IP67

450 W / 850 W / 1100 W OBC

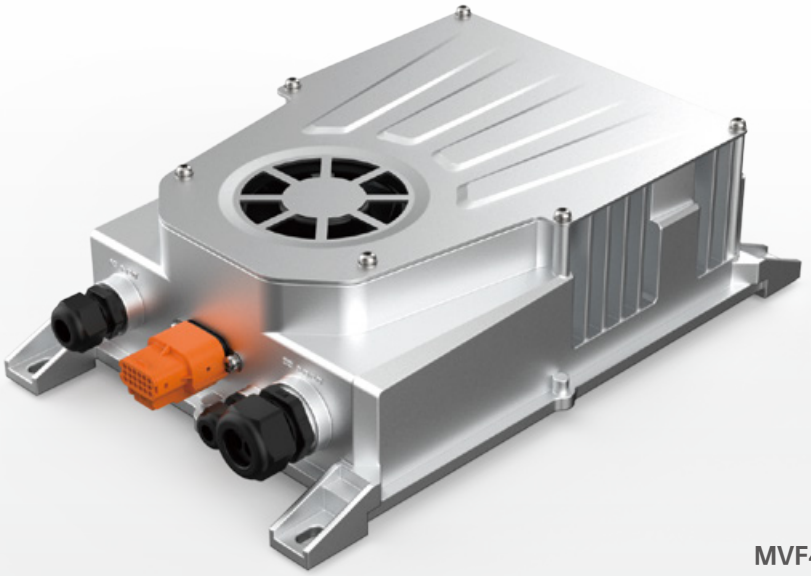


MVF241K2-A-G1

> LED indication & digital display
> Communication protocol
> Safety design for HV & LV isolation
> Supports program further update through CAN

Parameter	450 W / 850 W / 1100 W OBC (MVF241K2-A-G1)		
Rated Power	450 W	850 W	1100 W
Input Voltage	85 to 265 VAC		
Output Voltage	3 to 32.5 VDC		
Output Current	⩽ 15 A	⩽ 30 A	⩽ 36 A
Efficiency	⩾ 91%	⩾ 92%	
Communication Mode	CAN		
Protection Function	UVP, OVP, OCP, OTP etc.		
Working Temperature	-40 ℃ to +65 ℃		
Storage Temperature	-40 ℃ to +70 ℃		
Weight	⩽ 2 kg	⩽ 5 kg	
Dimension	226 × 152 × 75 (mm)	199.4 × 180 × 158 (mm)	

2 kW / 3 kW OBC

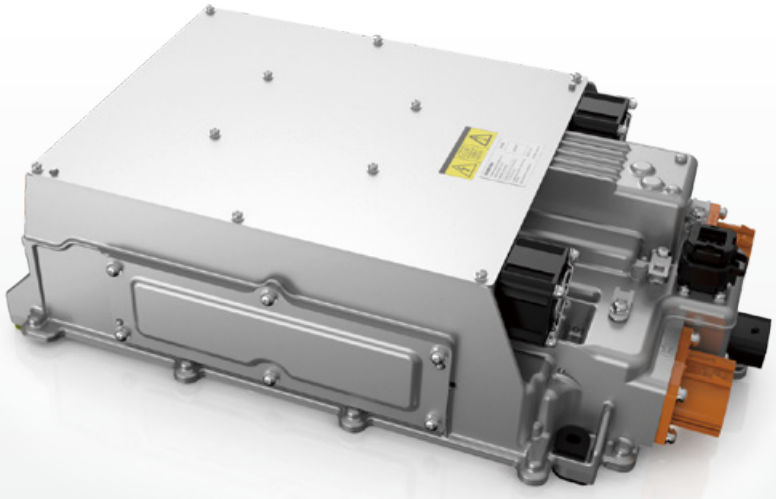


MVF483K3-A-G1

> LED indication
> Communication protocol
> Safety design for HV & LV isolation
> Supports program further update through CAN

Parameter	2 kW / 3 kW OBC (MVF483K3-A-G1)	
Rated Power	2.0 kW	3.0 kW
Input Voltage	85 to 265 V	
Output Voltage	6 to 68 VDC	
Output Current	⩽ 40 A	⩽ 60 A
Efficiency	⩾ 92%	⩾ 93%
Communication	CAN	
Protection Function	UVP, OVP, OCP, OTP etc.	
Working Temperature	-40 ℃ to +65 ℃	
Storage Temperature	-40 ℃ to +70 ℃	
Cooling Mode	Forced Air Cooling	
Weight	⩽ 5.5 kg	⩽ 6.5 kg
Dimension	195 × 180 × 158 (mm)	354.5 × 226.5 × 109 (mm)

3.2 kW / 6.6 kW OBC

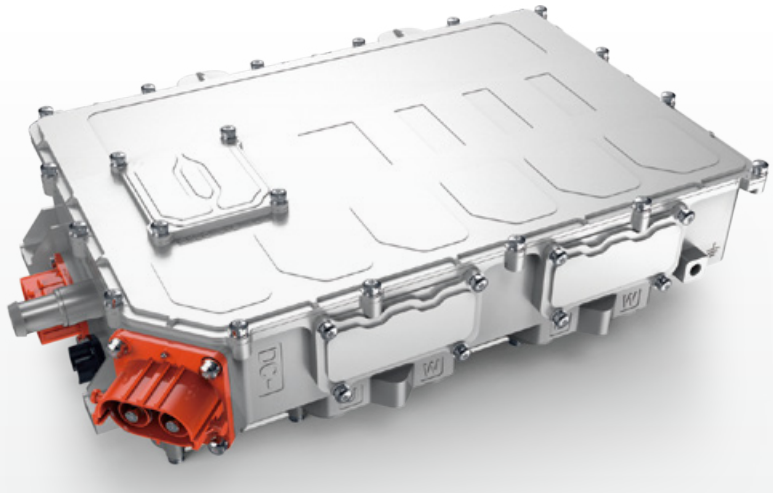


MVF806k6-A-G1

> Supporting wide range voltage input
> Communication protocol
> Safety design for HV & LV isolation
> Supporting program update through CAN bus

Parameter	3.2 kW / 6.6 kW OBC (MVF806k6-A-G1)	
Rated Power	3.2 kW	6.6 kW
Input Voltage	85 to 265 VAC	95 to 420 VAC
Output Voltage	60 to 110 VDC	
Output Current	40 A	80 A
Efficiency	⩾93%	
Communication	CAN	
Protection Function	UVP, OVP, OCP, OTP etc.	
Working Temperature	-40 ℃ to +65 ℃	
Storage Temperature	-40 ℃ to +70 ℃	
Cooling Mode	Forced Air Cooling	
Weight	⩽ 6.5 kg	⩽ 12 kg
Dimension	354.5 × 226.5 × 109 (mm)	439 × 253 × 125 (mm)

X-in-1 Integrated Controller

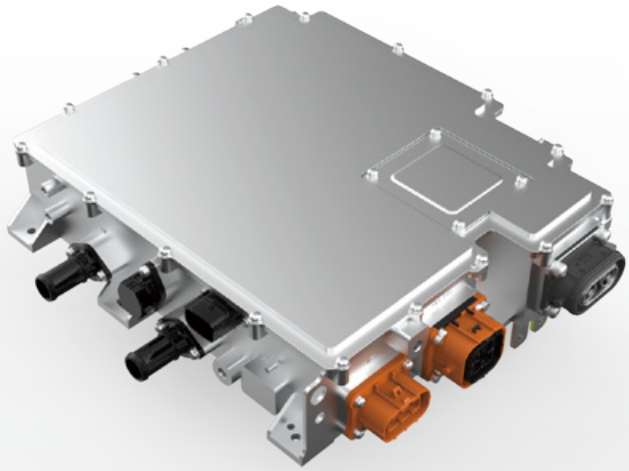


MEVC56-38Z160ALM

> High power density
> Supporting GCU + MCU + DC-DC + PDU
> Supporting dual electronic control + DC-DC + PDU
> Miniaturization & light weight

Parameter	X-in-1 Integrated Controller (MEVC56-38Z160ALM)	
DCDC Type	24 V	12 V
Input Voltage Range	240 to 390 VDC	200 to 450 VDC
Output Voltage Range	27.5 VDC	14 VDC
Rated Output Current	110 A	140 A
Peak Output Current	120 A (6 Min)	160 A (6 Min)
Rated Output Power	3 kW	2 kW
Peak Output Power	3.5 kW (6 Min)	2.2 kW (6 Min)
Maximum efficiency	94%	⩾ 94%
Projects	TM	ISG
Voltage Range	240 V to 450 VDC	200 V to 450 VDC
Rated Voltage	350 VDC	350 VDC
Rated Current	220 Arms	140 Arms
Peak Current	450 Arms @ 30 S	330 Arms @ 30 S
Peak Power	150 kW	80 kW
Switching Frequency	2 to 10 kHz	
LV Supply Range	Compatible with 12 V, 24 V	
Communication Mode	CAN	
Dimension	415 × 304 × 145 (mm)	
Weight	14 kg	
Cooling	Liquid cooling	

X-in-1 Motor Controller



MVW4009K1-B-G3.5

> OBC & DC-DC & PDU integrated for high power density
> Safety design for HV & LV isolation
> Supporting CAN & CANFD communication protocol
> Supporting 120 / 220 VAC AC grid voltage
> Supporting program update via CAN bus
> IEC 61851 & GB/T 18487 fully compatible

Parameter		X-in-1 Motor Controller (MVW4009K1-B-G3.5)
OBC Charging Mode	Power	6.6 kW
	Input Voltage	85 to 264 VAC
	Output Voltage	200 to 495 VDC
	Output Current	⩽ 23 A
	THD	⩽ 5%
	Peak Efficiency	⩾ 95%
	Power Factor	⩾ 0.99
	Voltage Accuracy	⩽ ±1%
OBC Inverter Mode	Power	3.3 kVA (V2L) 6.6 kVA (V2V)
	HV Input	300 to 495 VDC
	Output Voltage	220 VAC ± 5%
	Frequency	50 Hz ± 1 Hz
	Output Current	27 A max
DC-DC	Power	2.5 kW
	HV Input	200 to 495 VDC
	LV Output	14 VDC
	Output Current	178.6 A
	Peak Efficiency	⩾ 94.5%

Parameter	X-in-1 Motor Controller (MVW4009K1-B-G3.5)
Working Temperature	-40 ℃ to +85 ℃
Storage Temperature	-40 ℃ to +105 ℃
LV control Range	9 to 16 VDC
Communication	CAN, CAN FD
Wake Up Function	CAN, KL15, CC, CP
Protection Function	UVP, OVP, OCP, OTP etc.
Inverter Function	Yes
Cooling Mode	Liquid cooling
IP Ratings	IP67
Dimension	422.5 × 356 × 82 (mm)
Weight	⩽ 10 kg
Power Distribution	EAC、PTC etc.

X-in-1 Motor Controller

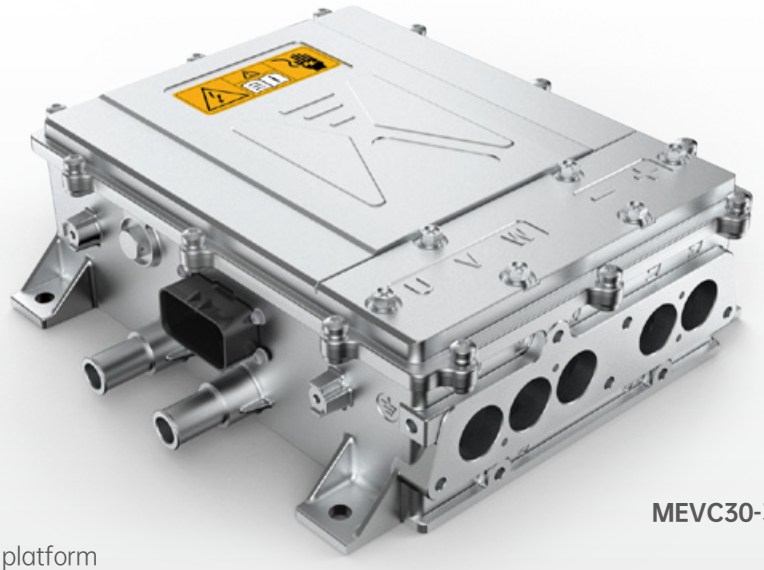
> Class 3 EMC
> High-Integrate: MCU + OBC + DC-DC + PDU
> Miniaturization & light weight
> Saving layout space, conducive to the layout of vehicle
Reducing the connection cost

PEU21-36D150-V6B

Parameter	X-in-1 Motor Controller (PEU21-36D150-V6B)
Product Type	HV drive integrated controller
DC Rated Voltage	360 VDC
Operating Voltage Range	200 to 450 VDC
Full Power Operating Voltage Range	275 to 450 V
MCU Rated Capacity	60 kVA
MCU Peak Capacity	180 kVA
MCU Rated Output Current	180 Arms
LV Supply Range	440 Arms @ 30 s
Low Voltage Control	9 to 18 V (6 to 9 V communications holding)
Cooling	Liquid cooling
Maximum Efficiency	⩾ 98.5%
IP Ratings	IP67
Dimension	447 × 365 × 127 (mm)
Weight	18.5 kg

Parameter	X-in-1 Motor Controller (PEU21-36D150-V6B)
Charger (OBC)	Input voltage range: 176 to 264 VAC Output Capacity: ⩾ 6.6 kW @ Rated Voltage Output Voltage Range : 240 V to 500 VDC Output voltage (300 to 500 V), full power output: 6.6 kW Reduced power at output voltages below 300 V, constant current exceed 23 A
Discharge (OBC)	V2L Mode Maximum Output Power: 3.5 kVA V2V Mode Maximum Output Power: 6 kVA
DC - DC	Rated output power ⩾ 1. 8 kW, peak power 2.2 kW (remain ⩾ 6 min) Input voltage: 240 V to 500 VDC / 200 to 240 V Output voltage: 14 V / 12. 5 V to 14 V
Quick Charge	⩾ 250 A
Power Distnbution	PTC, Air condition, IPU, etc.

Single Motor Controller



MEVC30-33Z330AL-F

> Small size & light weight
> Supporting 600 V voltage platform
> High power density
> Class 3 EMC

Parameter	Single Motor Controller (MEVC30-33Z330AL-F)
Product Type	Powertrain controller
DC Rated Voltage	336 VDC
Operating Voltage Range	240 V to 450 VDC
Full Power Voltage Range	280 V to 450 VDC
Rated Capacity	45 kVA
Peak Capacity	90 kVA
Rated Output Current	110 Arms
Peak Output Current	260 Arms @ 30 s
LV Supply Range	9 to 18 V（6 to 9 V communications holding）
Cooling	Liquid cooling
Maximum Efficiency	⩾ 98.5%
IP Ratings	IP67
Dimension	270 × 242 × 92 (mm)
Weight	5 kg

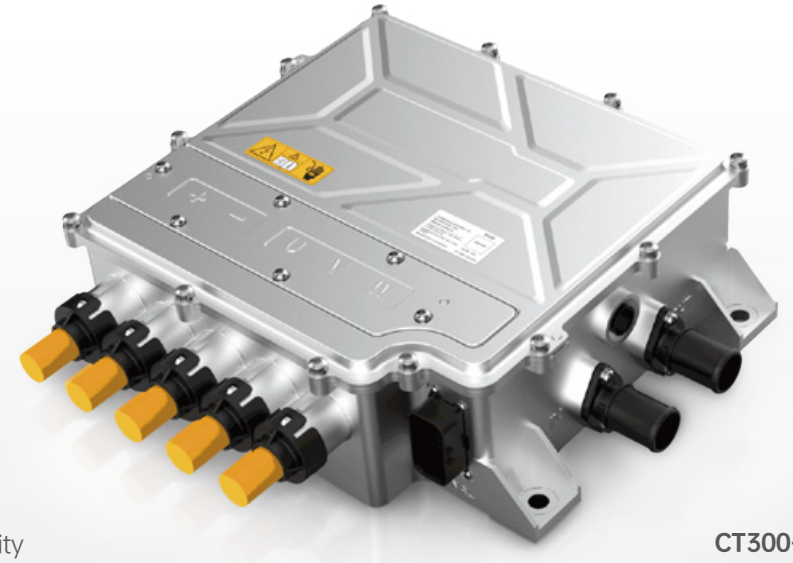
Single Motor Controller

MEVC50-33Z45AL-P2

> Small size
> High power density
> Maximum efficiency up to 98.5%
> Class 3 EMC

Parameter	Single Motor Controller (MEVC50-33Z45AL-P2)
Product Type	Traction inverter
Rated Voltage	336 VDC
Operating Voltage Range	240 V to 450 VDC
Full Power Voltage Range	280 V to 450 VDC
Rated Capacity	90 kVA
Peak Capacity	180 kVA
Rated Output Current	165 Arms
Peak Output Current	400 Arms @ 30 s
LV Supply Range	9 to 18 V (6 to 9 V communications holding)
Cooling	Liquid cooling
Maximum Efficiency	⩾ 98.5%
IP Ratings	IP67
Dimension	311 × 292 × 101 (mm)
Weight	5.5 kg

Single Motor Controller

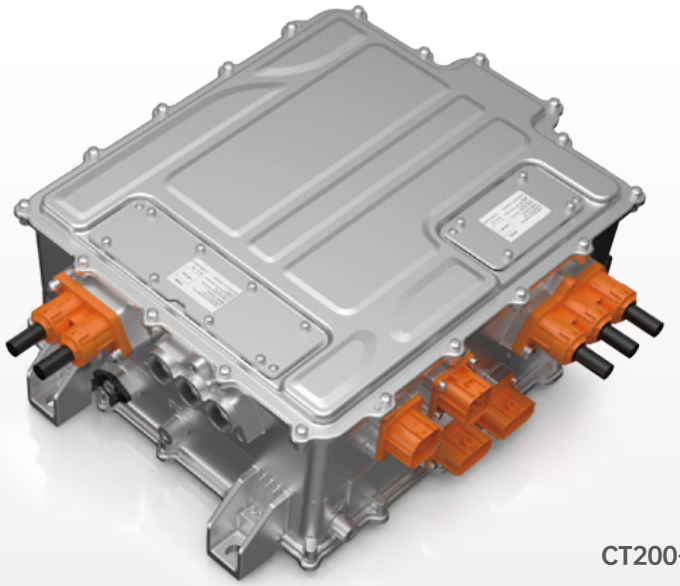


CT300-60D310

> IGBT/ SIC compatibility
> Supporting for voltage platform up to 800 V
> Supporting 12 V / 24 V system
> Small size & light weight & high power density
> Supporting CAN / CANFD communication protocol

Parameter	Single Motor Controller (CT300-60D310)
Product Type	Traction inverter
DC Rated Voltage	600 VDC
Operating Voltage Range	400 to 700 VDC
Full Power Voltage Range	500 V to 700 VDC
Rated Capacity	180 kVA
Peak Capacity	350 kVA
Rated Output Current	300 Arms
Peak Output Current	600 Arms @ 30 s
LV Supply Range	12 V & 24 V
Cooling	Liquid cooling
Maximum Efficiency	99%
IP Ratings	IP67
Dimension	316 x 289 x 100 (mm)
Weight	8 kg

Single Motor Controller

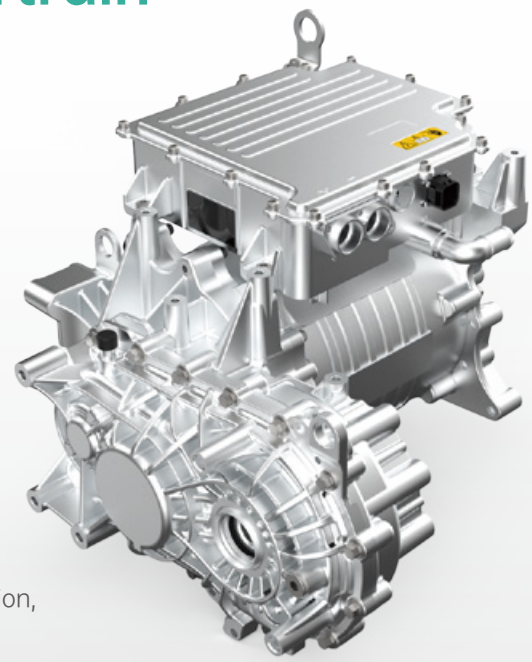


CT200-38A90

> Supporting HVDC input
> 380 VAC input, suitable for long-term vehicle operation at fixed places
> Built-in 24 V 3 kW DC-DC power supply
> High power density & high integration & high reliability

Parameter	Single Motor Controller (CT200-38A90)
Product Type	AC-DC X-in-one electronic control
DC Rated Voltage	380 VAC
Operating Voltage Range	380 VAC ± 20% / 400 to 700 VDC
Full Power Voltage Range	380 VAC ± 10% / 400 to 650 VDC
Rated Capacity	70 kVA (AC) / 90 kVA (DC)
Peak Capacity	105 kVA (AC) / 280 kVA (DC)
Rated Output Current	150 Arms (AC) / 180 Arms (DC)
Peak Output Current	250 Arms (AC) / 400 Arms (DC)
LV Supply Range	24 V
Cooling	Liquid cooling
Maximum Efficiency	96% (AC) 98.5% (DC)
IP Ratings	IP67
Dimension	452 x 356 x 186 (mm)
Weight	20 kg

120 kW E-Powertrain

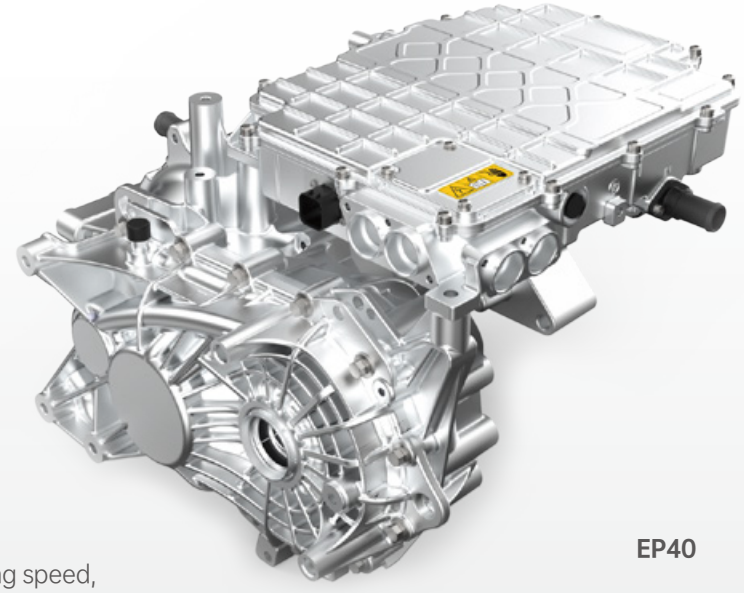


EP30

> Small size, light weight, high integration, and high reliability
> Small size & light weight & high power density & high integration & high reliability
> Suitable for A0-segment, A-segment vehicles

Parameter	120 kW E-Powertrain (EP30)
Product Type	3 - in - 1 Powertrain
Dimension	460 x 471 x 346 (mm)
Weight	68 ± 2 kg
Peak Power	120 kW
Rated Power	50 kW
Maximum Efficiency	93.2%
Operating Voltage Range	240 to 450 VDC
Full Power Voltage Range	320 to 450 VDC
Rated Voltage	358 VDC
Cooling Temperature	⩽ +65 °C
Operating Ambient Temperature Range	-40 °C to +85 °C
Wheel Peak Speed	1198 rpm
Wheel Rated Speed	454 rpm
WheelPeak Torque	2450 Nm
WheelRated Torque	1050 Nm
Lifespan	10 years / 300,000 km
Electro Magnetic Compatibility	Class 3
IP Ratings	IP67

180 kW E-Powertrain



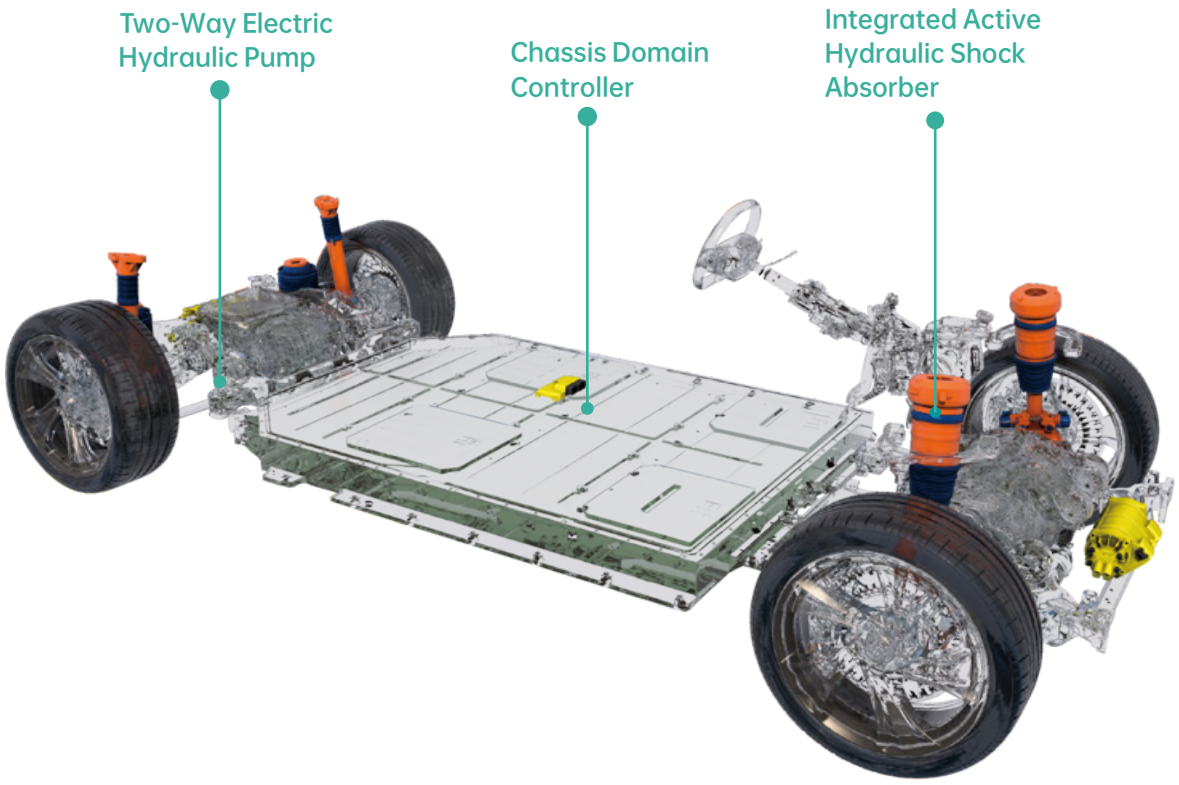
EP40

> High efficiency, high rotating speed, high powered, low noise, high reliability
> Supporting both front-wheel and rear-wheel drive configurations
> CAN / CANFD communication protocol fully compatible
> Platformized design

Parameter	180 kW E-Powertrain (EP40)
Product Type	3 - in - 1 Powertrain
Dimension	486 x 484 x 340 (mm)
Weight	85 ± 3 kg
Peak Power	180 kW
Rated Power	70 kW
Maximum Efficiency	95.5%
Operating Voltage Range	230 to 495 VDC
Full Power Voltage Range	380 to 495 VDC
Rated Voltage	380 VDC
Cooling Temperature	≤ +65 ℃
Operating Ambient Temperature Range	-40 ℃ to +85 ℃
Wheel Peak Speed	1388 rpm
Wheel Rated Speed	433 rpm
WheelPeak Torque	3573 Nm
WheelRated Torque	1556 Nm
Lifespan	10 years / 300,000 km
Electro Magnetic Compatibility	Class 3
IP Ratings	IP67

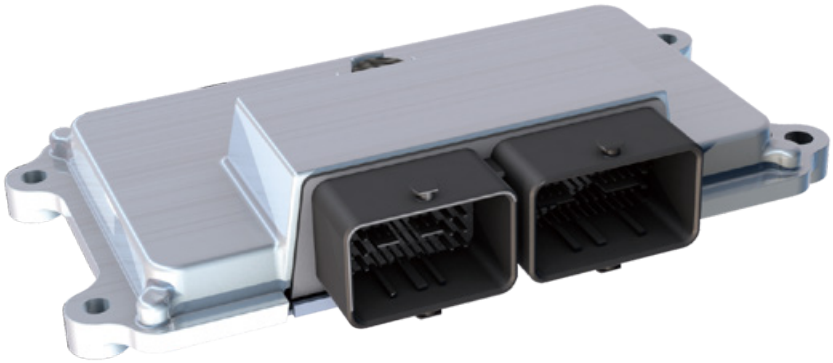
Intelligent Active Hydraulic Suspension (i-ahs)

Full active suspension is currently the best solution to comprehensively improve the comfort, handling and safety performance of the car! It is also the solution with the highest technology!



> Sports, comfort, safety
> Integrated 6-axis inertial sensor chassis motion controller
> High precision electric bidirectional hydraulic pump with dynamic compensation function
> Deeply integrated fully active hydraulic shock absorber

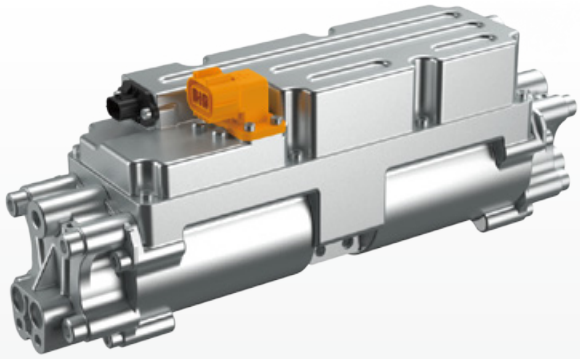
Chassis Domain Controller



> Integrated continuous damping control and active damping control
> Integrated air spring control
> Combined with on-board camera and radar information, integrated road preview control function
> The model and modular platform control strategy is adopted to realize various functions such as vehicle motion attitude calculation, vertical vibration control, vehicle height control and vehicle communication
> Integrated tri-core chip
> Integrated six-axis inertial sensor chip, reserve a variety of types (PSI5, SENT, Analog, Digital, etc.) sensor signal acquisition channels
> Support multi-channel CAN2.0 / CAN-FD communication and special frame wake-up function to meet customers' different CAN electrical architecture needs
> Meet the needs of applications such as Cyber Security and AUTOSAR architecture
> Supports ISO26262 ASIL-C functional safety requirements

Parameter	Chassis Domain Controller
Dimension	210 x 125 x 48 (mm)
Weight	< 1 kg
Ingress Protection	6K9K
Operating Temperature Range	-40 ℃ to +85 ℃
Atmospheric Pressure Range	50 to 106 Kpa
Storage Temperature Range	-40 ℃ to +125 ℃
Functional Safety Level	ASIL C
Communication	CAN2.0 / CAN-FD

5-in-1 Electric Hydraulic Pump



> Deeply integrated bi-directional gear pump, high-efficiency permanent magnet motor and controller
> Fast response, low noise and high efficiency
> 4 to 8 L displacement are available
> 48 V, 400 V, 800 V multi-voltage platform
> Various integration methods to meet the layout needs of different vehicle models
> IP6K9K, ISO26262 ASIL-C

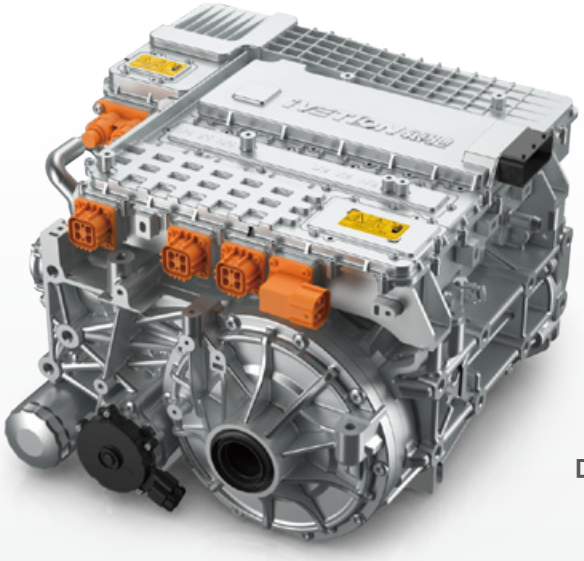
Parameter	5-in-1 Electric Hydraulic Pump
Dimension	250 x 160 x 128 (mm)
Weight	6.75 kg
Max Continuous Flow Rate	50 L/min (adjustment parameter)
Max Work Pressure	150 bar
Nominal Voltage	48 V, 400 V, 800 V
Nominal Power	2.6 kW
Peak Power	4 kW (48 V), 7 kW (400 V), 7 kW (800 V)
Rotation Direction	Bi-Direction
Pump Type	Internal gear pump
Communication	CAN / CAN-FD
Functional Safety Level	ASIL C

Integrated Active Hydraulic Shock Absorber

> China's first built-in dual accumulator active shock absorber
> Integrated air spring assembly
> Integrated dual CDC valve modules
> Highly integrated four-chamber structure
> Built-in dual accumulators
> Integrated dual CDC valve module, upper and lower chamber independent adjustment
> High intensity laser welding technology

Parameter	Integrated Active Hydraulic Shock Absorber
Dimension	550 x 220 x 160 (mm)
Weight	15 kg
Range Of Travel	±90 mm
Maximum Load Bearing	1500 kg
Damping Coefficient	Compress: 2000 N @ 0.524 m/s
Lifting Rate	500 mm/s
Operating Temperature	-40 ℃ to +120 ℃
Work Stress	0 to 20 Mpa
Nominal Voltage	12 V
Service Current Range	0 to 2 A proportional adjustment
Current Characteristics	DC
Direct Current Resistance	2.54 Ω

Dual Traction Motor TV EDU

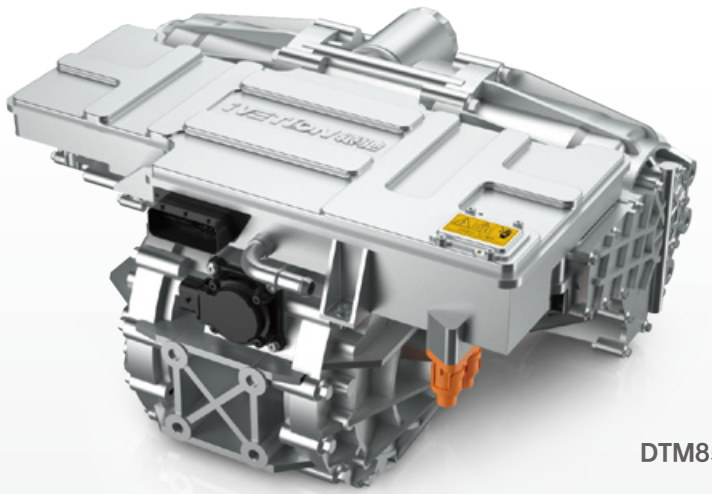


DTM8500C

> ATV (Active Torque Vectoring) Dual-EMS EDU
> Peak Performance: 8500 Nm & 380 kW & 630 VDC
> Compatible with 400 V and 800 V applications
> 100% (±45°) Gradient; Ground clearance> 240 mm; with mechanical differential lock
> Cooling Boundary: inlet of PEU: +65 °C & 12 L/min
> EMC: Class 3 & Meet vehicle EMC requirement
> Functional Safety: ASIL D
> IP Grade: IP6K9K
> Lifetime: 15 years / 300,000 km
> EDU System Weight (including oil and MDL): 140 kg

Parameter	Dual Traction Motor TV EDU (DTM8500C)	
System Architecture	ATV Dual-EMS EDU System-C	
Voltage Platform	400 VDC	800 VDC
Rated Voltage	380 VDC	630 VDC
Working Voltage Range	240 to 450 VDC	340 to 880 VDC
Full Power Voltage Range	320 to 450 VDC	550 to 880 VDC
Wheel Peak Power	300 kW	380 kW
Wheel Peak Torque	8500 Nm / 30 s	8500 Nm / 30 s
Wheel Max Speed	1440 rmp	1440 rmp
Wheel Continuous Power	150 kW	190 kW
Wheel Continuous Torque	4200 Nm	4200 Nm
CLTC Efficiency Drive & Generation(%)	⩾89	
System Dimension (comparable To 3in1 EDU)	559 x 519 x 333 (mm) (Including MDL)	

Dual Traction Motor TV EDU

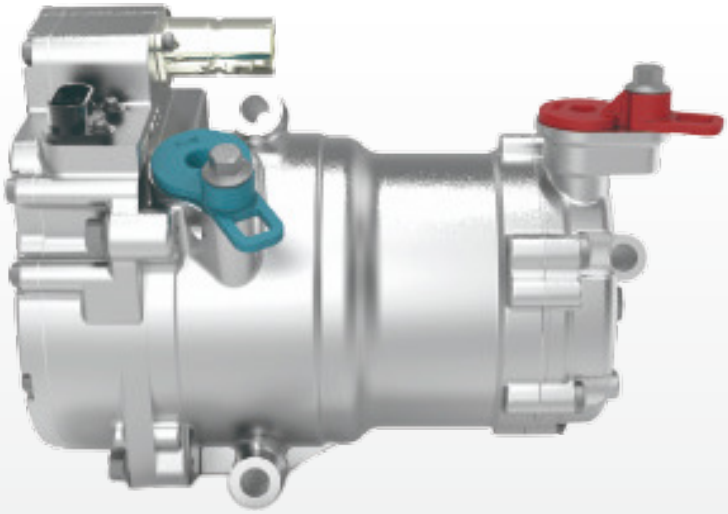


DTM8500T

> ATV (Active Torque Vectoring) Dual-EMS EDU
> Peak Performance: 8500 Nm & 380 kW & 630 VDC (Ex to 10500 Nm & 450 kW)
> Compatible with 400 V and 800 V applications
> 100% (±45°) Gradient; Ground clearance> 240 mm; with mechanical differential lock
> Cooling Boundary: inlet of PEU: +65 °C & 12 L/min
> EMC: Class 3 & Meet vehicle EMC requirement
> Functional Safety: ASIL D
> IP Grade: IP6K9K
> Lifetime: 15 years / 300,000 km
> EDU System Weight (including oil and MDL): 145 kg

Parameter	Dual Traction Motor TV EDU (DTM8500T)	
System Architecture	ATV Dual-EMS EDU System-T	
Voltage Platform	400 VDC	800 VDC
Rated Voltage	380 VDC	630 VDC
Working Voltage Range	240 to 450 VDC	340 to 880 VDC
Full Power Voltage Range	320 to 450 VDC	550 to 880 VDC
Wheel Peak Power	300 kW	380 kW (Expandable 450 kW)
Wheel Peak Torque	8500 Nm / 30 s	8500 Nm / 30 s (Expandable 10500 Nm / 30 s)
Wheel Max Speed	1440 rmp	1440 rmp
Wheel Continuous Power	150 kW	190 kW
Wheel Continuous Torque	4200 Nm	4200 Nm
CITC Efficiency Drive & Generation(%)	⩾89	
System Dimension (comparable To 3in1 EDU)	550 x 617 x 350 (mm) (Including MDL)	

400 V Electric Compressor



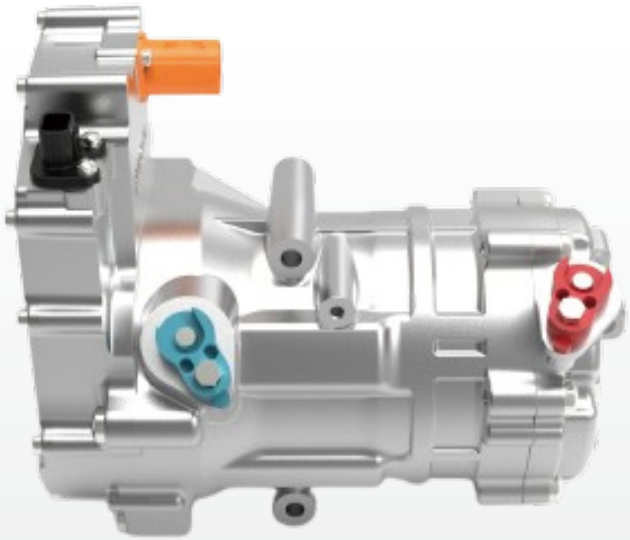
MGB28AT/MGB34AT

> High reliability (hi-rel)
> High efficiency
> Lightweight design
> Broad application range

Parameter	400 V Electric Compressor (MGB28AT/MGB34AT)							
Model	MGB28AT				MGB34AT			
Displacement	28cc / rev				34cc / rev			
Refrigerant	R134A / R1234yf				R134A / R1234yf			
Voltage	320 / 540 VDC				320 / 540 VDC			
Lubricating Oil	POE RB68							
Rotation Speed	2000 rpm	3000 rpm	5000 rpm	7000 rpm	2000 rpm	3000 rpm	5000 rpm	7000 rpm
Power	710 W	1100 W	1750 W	2490 W	875 W	1310 W	2180 W	3150 W
Cooling Capacity	1352 W	2310 W	3850 W	5105 W	1880 W	2830 W	4750 W	6520 W
Cop	1.9	2.1	2.2	2.05	2.1	2.2	2.2	2.1
IP Ratings	IP67							
Control Mode	CAN / LIN							
Noise	64.5 dBA				65 dBA			
Weight	5.8 kg				5.8 kg			

* Performance test condition: Evaporation pressure 0.2 MpaG; Condensation pressure 1.4 MpaG; Superheat degree 10 K; Subcooling degree 5 K;
* Noise test condition: Evaporation pressure 0.2 MpaG; Condensation pressure 1.4 MpaG; Superheat degree 10 K; Subcooling degree 5 K; Speed: 4000 rpm; The average sound pressure level at a noise level of 30 cm;

800 V Electric Compressor



MGB47AT/MGB55AT

> High reliability (hi-rel)
> Lightweight design
> High efficiency
> Broad application range

Parameter	800 V Electric Compressor (MGB47AT/MGB55AT)							
Model	MGB47AT				MGB55AT			
Displacement	47cc / rev				55cc / rev			
Refrigerant	R134a / R1234yf				R134a / R1234yf			
Voltage	320 / 600 / 800 VDC				320 / 600 / 800 VDC			
Lubricating Oil	POE RB68							
Rotation Speed	2000 rpm	4000 rpm	6000 rpm	8000 rpm	2000 rpm	4000 rpm	7000 rpm	10000 rpm
Power	1161 W	2306 W	3471 W	4739 W	1359 W	2623 W	5096 W	8195 W
Cooling Capacity	2557 W	5386 W	7917 W	10191 W	2993 W	6379 W	11098 W	15283 W
Cop	2.2	2.34	2.28	2.15	2.2	2.43	2.18	1.86
IP Ratings	IP67							
Control Mode	CAN / LIN							
Noise	69 dBA @ 4000 rpm				69.5 dBA @ 4000 rpm			
Weight	8.2 kg				8.2 kg			

* Performance test condition: Evaporation pressure 0.2 MpaG; Condensation pressure 1.4 MpaG; Superheat degree 10 K; Subcooling degree 5 K;
* Noise test condition: Evaporation pressure 0.2 MpaG; Condensation pressure 1.4 MpaG; Superheat degree 10 K; Subcooling degree 5 K; Speed: 4000 rpm; The average sound pressure level at a noise level of 30 cm;

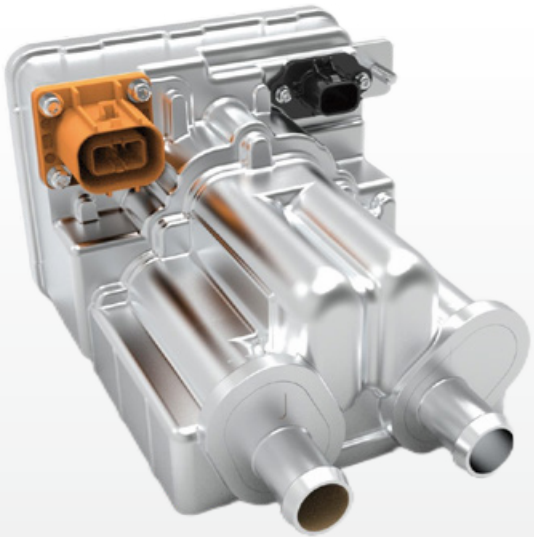
2 kW Vehicle Heater

HMV2K-D450

> Compact size, lightweight, high power
> Immersion heating, ultra-high thermal efficiency
> Good EMC performance

Parameter		2 kW Vehicle Heater (HMV2K-D450)
Operating Voltage Range	High-voltage Terminal	250 to 485 V
	Low-voltage Terminal	9 to 16 V
	Operating Temperature	-40 ℃ to +105 ℃
Ambient Temperature	Storage Temperature	-40 ℃ to +125 ℃
	Coolant Temperature	-40 ℃ to +90 ℃
	Operating Pressure	⩽ 0.35 Mpa
	Burst Pressure Range	＞ 0.7 MPa
Basic Performance	Altitude	⩽ 4500 m
	Ingress Protection (IP) Rating IP	IP67
	Insulation Resistance	⩾ 100 MΩ @ 1000 VDC
	Relative Humidity	5% to 95%
	Atmospheric Pressure	86 to 106 kpa
	Power	2.5 kW ±10% @ 350 V +20 ℃ 10 L/min
	Heat Efficiency	⩾97% @350 V +60 ℃ 10 L/min
	Impulse Current	⩽15 A
	Weight	⩽0.5 kg

8 kW Vehicle Heater

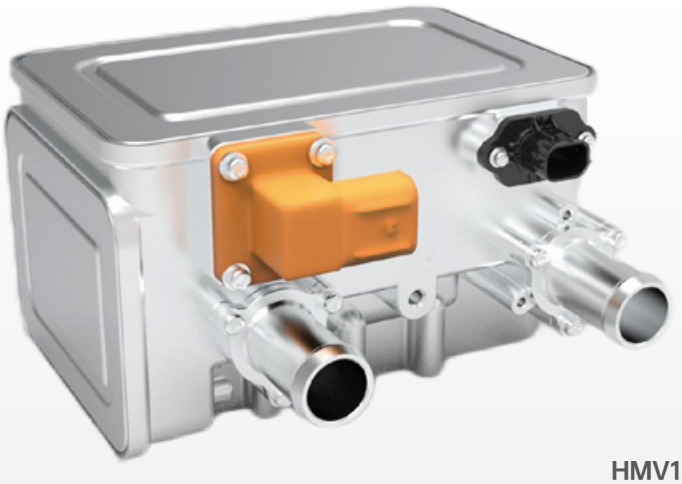


HMV8K-D350/HMV8K-D600

> Compact size, lightweight, high power
> PWM adjustment, precise power control
> Immersion heating, ultra-high thermal efficiency
> PID regulation, precise temperature control
> Supports CAN / LIN communication
> Good EMC performance
> UDS diagnostics + bootloader for online updates

Parameter		8 kW Vehicle Heater (HMV8K-D350/HMV8K-D600)
Operating Voltage Range	High-voltage Terminal	220 to 480 V
	Low-voltage Terminal	9 to 16 V
	Operating Temperature	-40 ℃ to +120 ℃
Ambient Temperature	Storage Temperature	-40 ℃ to +125 ℃
	Coolant Temperature	-40 ℃ to +90 ℃
	Operating Pressure	⩽ 0.35 Mpa
	Burst Pressure Range	> 0.7 MPa
Basic Performance	Altitude	⩽ 5000 m
	Ingress Protection (IP) Rating IP	IP67
	Insulation Resistance	⩾ 100 MΩ @ 1000 VDC
	Relative Humidity	5% to 95%
	Atmospheric Pressure	86 to 106 kpa
	Power	⩾ 8 kW
	Heat Efficiency	⩾95%
	Impulse Current	⩽ 30 A
	Dimension	189 x 142 x 111 (mm)

12 to 15 kW Vehicle Heater



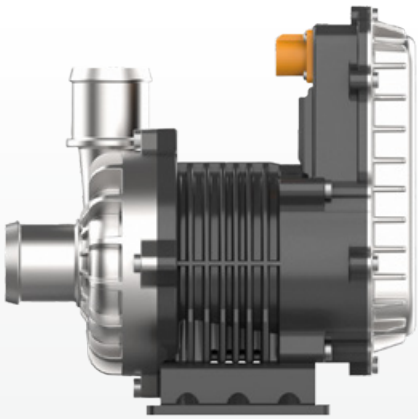
HMV15K-D600

> Compact size, lightweight, high power
> PWM adjustment, precise power control
> Immersion heating, ultra-high thermal efficiency
> PID regulation, precise temperature control
> Supports CAN / LIN communication
> Good EMC performance
> UDS diagnostics + bootloader for online updates

Parameter		12 to 15 kW Vehicle Heater (HMV15K-D600)
Operating Voltage Range	High-voltage Terminal	450 to 850 VDC
	Low-voltage Terminal	9 to 32 V
Ambient Temperature	Operating Temperature	-40 ℃ to +120 ℃
	Storage Temperature	-40 ℃ to +125 ℃
	Coolant Temperature	-40 ℃ to +90 ℃
Basic Performance	Operating Pressure	⩽0.35 Mpa
	Burst Pressure Range	＞0.7 MPa
	Altitude	⩽ 5000 m
	Communication	CAN 2.0
	Ingress Protection (IP) Rating IP	IP67
	Insulation Resistance	⩾100 MΩ @ 1000 VDC
	Relative Humidity	5% to 95%
	Atmospheric Pressure	86 to 106 kpa
	Power	12 kW ±10% @ 710 V Water Inlet 0℃ 20 L/min
	Flow Range	4 to 80 L
	Heat Efficiency	⩾95%
	Impulse Current	⩽35 A
	Dimension	184 x 163.1 x 112 (mm)

Vehicle Electronic Water Pump

PMV300-D24

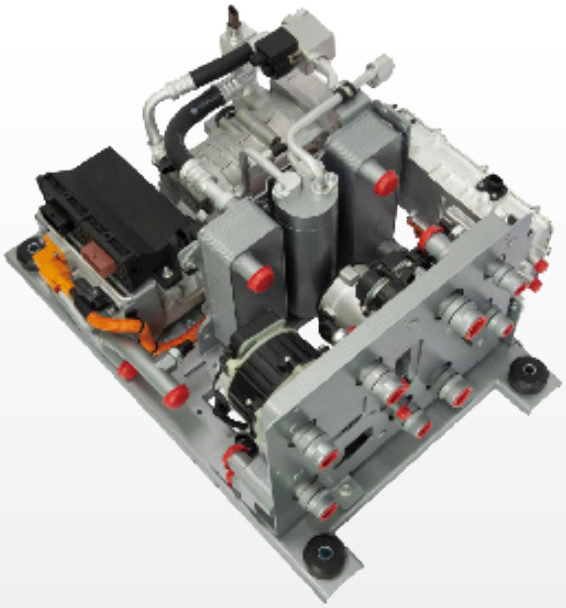


PMV1000-D800

> Low noise, long lifetime
> High efficiency, high reliability
> Equipped with complete protection functions such as overvoltage, undervoltage, and idling advanced control algorithms, precision control

Parameter	Vehicle Electronic Water Pump (PMV300-D24/PMV1000-D800)	
Power	300 W	1000 W
Input Voltage	18 to 32 VDC	400 to 800 VDC
Efficiency	> 40%	> 40%
Rated Parameters	2880 L/h @ 17.5 m	135 L/min @ 18 m
Noise	⩽ 60 dB @ 1 m	⩽60 dB @ 1 m
Lifetime	⩾ 20000 h	⩾ 20000 h
Control Mode	PWM / CAN / LIN	CAN / PWM / LIN
Protection Function	OVP	OVP
	UVP	UVP
	OCP	OCP
	OTP	OTP
	Idling protection	Idling protection
	Locked rotor protection	Locked rotor protection
Working Temperature	-40 ℃ to +85 ℃	-40 ℃ to +85 ℃
Storage Temperature	-40 ℃ to +85 ℃	-40 ℃ to +85 ℃
Weight	⩽ 2 kg	⩽ 5 kg
Dimension	177 x 121 x 150 (mm)	201 x 155 x 200 (mm)
Protection Level	IP68	IP68
Working Medium	Water / Antifreeze	Water / Antifreeze
Inlet And Outlet Dimensions	Ø25 mm	Ø38 mm

Integrated Thermal Module



ET01010074

> Highly integrated
> Plug and Play
> Everything is custom design

Parameter		Integrated Thermal Module (ET01010074)
Electrical Specification	High Voltage	400 to 950 VDC
	Low Voltage	12 V & 24 V
	Communication	LIN & CAN
Outline	Dimension	500 × 465 × 310 (mm)
Parameters	Refrigerant	HFC134a / HFO1234yf
	Battery Cooling	15 kW
	Cabin Cooling	10 kW
	Battery Heating	12 kW
	Cabin Heating	12 kW
	MCH heating	15 kW
	Battery Pump Flow Rate	50 L/min
	Cabin Pump Flow Rate	20 L/min
	Power Electronics Flow Rate	50 L/min

Integrated Thermal Module

ET01020071

> Dual-side integration
> Platform design
> Heat recovery
> Easy maintenance

Parameter		Integrated Thermal Module (ET01020071)
Electrical	High Voltage	350 to 750 VDC
	Low Voltage	12 V & 24 V
	Communication	LIN & CAN
Sizing	Dimension	400 × 270 × 380 (mm)
Refr. Type	Refrigerant	HFC134a / HFO1234yf
Capacity	Cooling	> 6.5 kW
	Heating	> 10 kW
Coolant Flow	Cabin	20 L/min
	Battery	20 L/min
	EDS	20 L/min

Variable Frequency Intelligent Integrated Oxygen Generator

MOCP7L-BA-BJ

Intelligent Dynamic Compensation

> The flow rate is automatically adjusted based on the concentration in the passenger cabin and the oxygen enrichment time

> Multiple sensors are installed in the passenger cabin and communicate with the vehicle's computer system

Variable Frequency Energy-saving Control

> Core Field-Oriented Control (FOC) Sinusoidal DC Inverter Algorithm high efficiency and energy saving with Excellent Dynamic Response Intelligent Dynamic Compensation

Oil-free Scroll Compressor

> Self-developed oil-free scroll compressor with a wide speed range: 1000 to 4700 rpm

> Low vibration and noise, with a volumetric efficiency of up to 85%

> Compact size and lightweight

Parameter	Variable Frequency Intelligent Integrated Oxygen Generator (MOCP7L-BA-BJ)
Oxygen Supply Method	Diffusion + Nasal Inhalation (Emergency Oxygen)
Intelligent Control	Altitude Sensor, Oxygen Concentration Sensor
Output Flow Rate	7 L, 10 L (Cabin Oxygen Concentration Meets Requirements within 30 Minutes)
Operating Temperature	-30 ℃ to +60 ℃
Operating Altitude	0 to 5000 meters (Oxygen Concentration Begins to Decrease Above 5000 meters)
Input Voltage	DC: 12 V, 48 V, 400 V; AC: 220 V
Operating Environment	IP67 (Water-cooled)
Test Certification	GB_T 35414-2017, GB 9706-2020, YY1778.1-2021, DBJ 540004-2018
Electronic Components	Automotive components
Exterior Structure	Metal housing
Mounting Structure	Meets automotive vibration 6G requirement
System Requirements	ISO13485 / ISO16949

Global Infrastructure

MEGMEET's global footprint includes advanced R&D centers, integrated manufacturing, and regional offices enabling fast response, localized support, and efficient deployment worldwide.

MEGMEET's international engineering network supports close customer collaboration, rapid validation, and region-specific adaptation to deliver reliable, high-performance solutions globally.

10 R&D Centers


China | Changsha


China | Shenzhen


China | Hangzhou


China | Wuhan


China | Xi'an


China | Chengdu


China | Taizhou


China | Zhuzhou


USA I San Jose


Germany | Bielefeld

8 Owned Manufacturing


China | Zhuzhou


China | Hangzhou


China | Taizhou


China | Yiwu


China | Heyuan


Thailand | Rayong


India | Noida


USA I Dallas

MEGMEET

Power Solutions

- ☐ Telecom Power
- ☐ Medical Power
- ☐ Smart Display Power
- ☐ LED Display Power
- ☐ Industrial enclosed Power
- ☐ Laser Power
- ☐ OA Power
- ☐ Utility Power
- ■ Datacenter and Networking Power Solutions
- ☐ BESS & EV Charging Solutions
- ☐ Bi-directional Inverters for Portable Power
- ☐ Portable Solar Generator

Industrial Automation

- ☐ Servo System
- ☐ Control System
- ☐ Elevator Controller
- ☐ Linear Motor
- ☐ IoT Solutions
- ☐ Encoder
- ☐ Variable Frequency Drive
- ☐ Internal Gear Pump

e-Mobility & EV Infrastructure

- ■ Integrated Charging System (OBC & DC-DC)
- ■ Power Electronic Unit (2-in-1, 3-in-1)
- ■ E-Compressor
- ■ TV EDU
- ■ Inverter
- ☐ Construction Vehicle Controller
- ■ Intelligent Active Hydraulic Suspension (i-AHS)
- ☐ Railway A/C Controller
- ☐ Railway VFD
- ■ Thermal Mgmt. System
- ☐ Micro-Mobility Motor, Inverter, and Charging System
- ■ Oxygen Generator

Intelligent Equipment

- ☐ Intelligent Welding
- ☐ Electric Submersible Progressing Cavity Pump
- ☐ Medium-Voltage Soft Open Point (SOP)
- ☐ Industrial Microwave
- ☐ Polysilicon Water Quenching Equipment
- ☐ Ultraviolet Curing Equipment
- ☐ Automated Car Washing Machine
- ☐ Booster Manipulator
- ☐ High-Precision Positioning Stage

Smart Building

- ☐ Residential A/C Controller
- ☐ Commercial A/C Controller
- ☐ Heat Pump Controller
- ☐ Vehicle A/C Controller
- ☐ Solar A/C Controller
- ☐ Mini Compressor Controller
- ☐ Refrigerator Controller
- ☐ Washer/Dryer Controller
- ☐ Residential Microwave
- ☐ Industrial Microwave
- ☐ Smart Bidet
- ☐ RF Thawing System
- ☐ Fan Heater Controller
- ☐ Oxygen Concentrator

Precision Connection

- ☐ Micro Motor
- ☐ Water Pump Motor
- ☐ Inductor
- ☐ Transformer
- ☐ FFC
- ☐ FPC
- ☐ Coaxial Cable
- ☐ CCS
- ☐ Litz Wire

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