



NVR IS YOUR ELECTRIFICATION PARTNER

nvr-us.com

A leading provider of intelligent control systems, electrification, and IoT solutions for mobile equipment



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About NVR

Founded in Silicon Valley, California in 2009, NVR is a global electrification partner specializing in off-highway equipment.

We provide a comprehensive portfolio of electrification solutions, delivering end-to-end platforms that empower our partners to innovate and transform. As a recognized leader in the off-highway industries we serve, NVR combines deep expertise with hands-on engineering excellence.

With global R&D, manufacturing, and service capabilities—and nearly half of our team comprised of engineers—we collaborate with customers worldwide to accelerate electrification and drive next-generation technology forward.

NVR is Your Electrification Partner!

OUR VALUES

Respect



Innovation



Trust



Integrity



Teamwork



Customer Focus



Accountability



Work Life Balance



COMPANY
INTRODUCTION

Engineering and Development Capability

Designed to support real-world system development.

Specialized Team



130+

R&D
Engineers

49%+

R&D
Ratio

15+

Years
Experience

Customized Solutions



Supports both standardized products and project-based customization.

Modular Development



Modular software, hardware, and system architecture designed for scalable development.

Multi-Platform Development



Compatible with:



SIMULINK



CODESYS



Qt

Supports secondary development to enable flexible and adaptive engineering.

Multi-Language and OS Support



Supports development in **C**, **C++**, **Lua**, and other major languages.

Compatible with **RTOS**, **Android**, and **Linux** operating systems.

SGS QTL Authoritative Certified Laboratory

Covering over **20** test items



Electric Drive System
Bench Testing



Salt Spray Testing



Water Ingress Testing



Dust Ingress Testing



EMC Testing



Combined Environmental
Vibration Testing



Temperature & Humidity
Testing



Mechanical Shock
Testing



Durability Testing

NVR IS YOUR ELECTRIFICATION PARTNER

Electronic Control Unit (ECU)
Platform Control Unit (PCU)

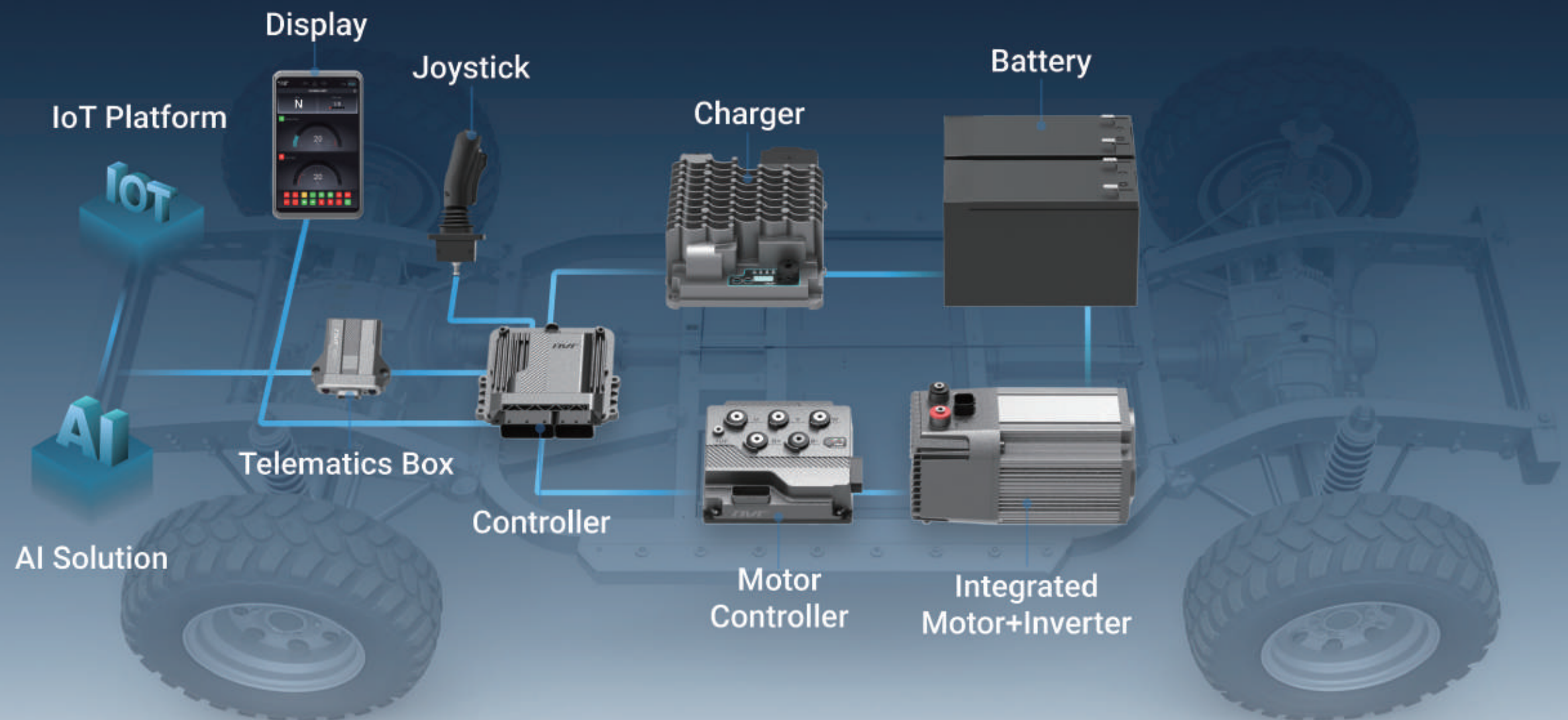
Control Box
Controller

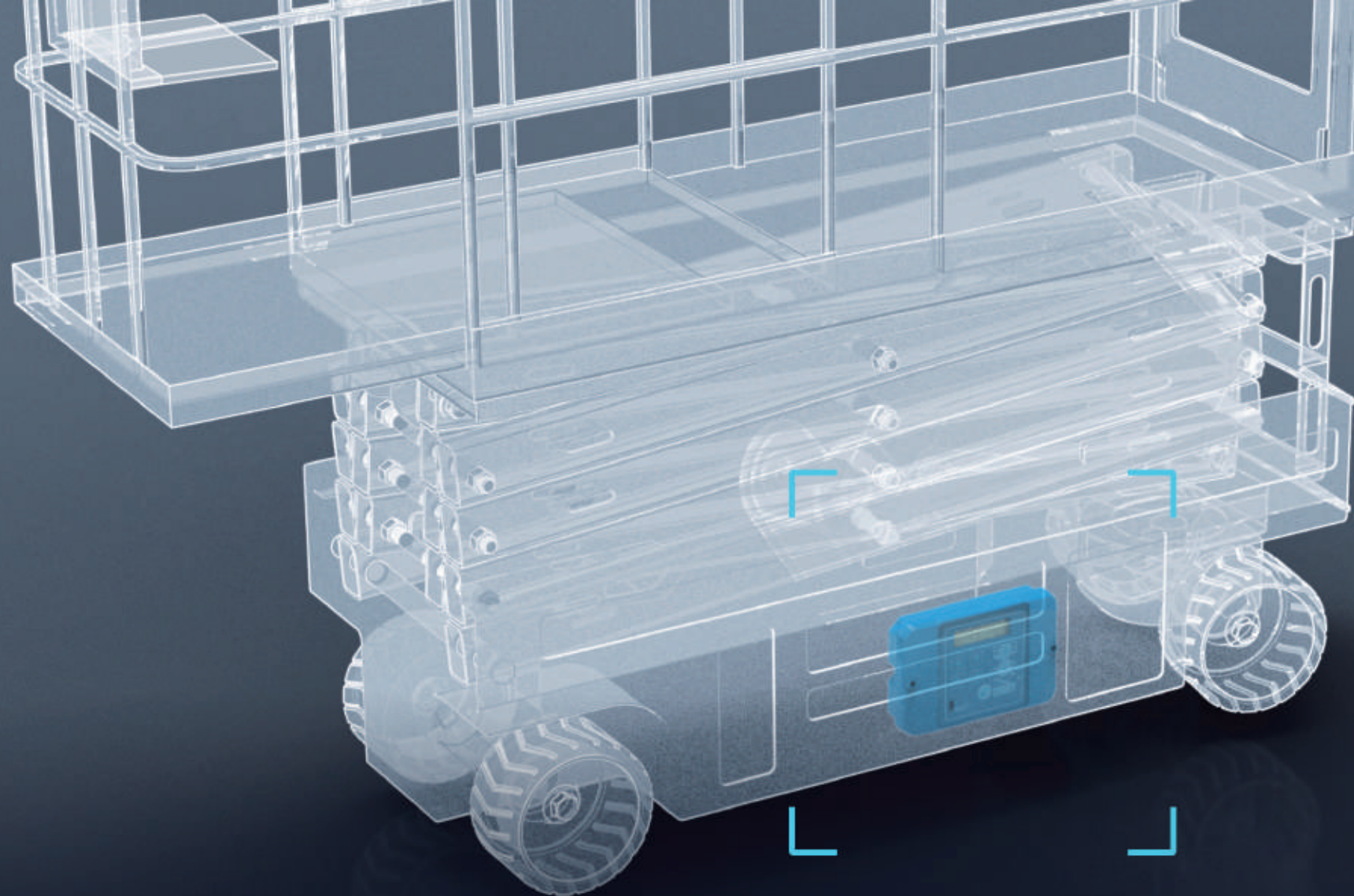
Motor Controller
Charger

Display
Instrument Cluster

Telematics Box (TBOX)
Joystick

Battery
Sensor





Electronic Control Units (ECUs)

The Electronic Control Unit Series features models such as AE1000, AE1102, and RE1201, designed for a wide range of MEWP applications, including scissor lifts, rough-terrain scissor lifts, crawler scissor lifts, and mast lifts.

Applicable Equipment



Scissor Lifts



Rough Terrain Scissor Lifts



Crawler Scissor Lifts



Mast Lifts

More

Product Certifications



Functional Safety

Certified to ISO 13849-1: 2023 functional safety standards.



Product Certifications

Product Certifications to international standards, including CE, FCC, and UL, facilitating global market expansion.



Flexibility

Equipped with a variety of configurable I/O ports; customizable membrane.



Service Efficiency

NVR Self-developed app-based diagnostic tool (NVRreTOOL) enables easy program updates, parameter optimization, and data analysis.

Product Model	AE1000	AE1102	AE1103
Product Image			
Rated Voltage	24 V	24 V	24 V
Operating Voltage	9~32 V	9~32 V / 8~32 V (K2)*	9~32 V / 8~32 V (K2)*
Standby Current	0.1 A @ 24 V	0.2 A @ 24 V	0.2 A @ 24 V
Display Type	2-Digit LED Display	LCD	LCD
Pin Count	36 Pin	35 Pin + 14 Pin	35 Pin + 14 Pin
Max Input Port	14 Channels	21 Channels	21 Channels
Max Output Port	14 Channels	20 Channels	20 Channels
CAN Communication	1 Channel	1 Channel	1 Channel
RS232-CAN Communication	1 Channel	1 Channel	1 Channel
NVReTOOL*	✓	✓	✓
Housing Material	Aluminum	PC/PET+GF30	PC/PET+GF30
Dimensions (mm)	132.2×96×51	184×122×60	122×184×60
Weight	0.38±0.01 kg	0.55±0.01 kg	0.55±0.01 kg
Button	-	7	7
Connector	TE 344108-1	TE 776231-1 & 776262-1	TE 776231-1 & 776262-1
Protection Rating	IP55	IP66	IP65
Operating Temperature	-40 °C - +85 °C	-20 °C - +70 °C	-20 °C - +70 °C
Storage Temperature	-40 °C - +85 °C	-40 °C - +85 °C	-40 °C - +85 °C
Environmental Testing	IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T 413:2002, ISO 16750-4:2010		
Electrical Performance Testing	ISO 16750-2:2012		
EMC Testing	ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019		
Product Certifications	CE, FCC, UL	Functional Safety, CE, FCC, UL	
Additional Features	Compact Size, Save Space	With USB Interface	-

Product Model	AE1202	RE1201
Product Image		
Rated Voltage	24 V	12 V
Operating Voltage	9~32 V / 8~32 V (K2)*	8~16 V
Standby Current	0.2 A @ 24 V	0.2 A @ 12 V
Display Type	LCD	LCD
Pin Count	35 Pin + 14 Pin	72 Pin
Max Input Port	21 Channels	26 Channels
Max Output Port	20 Channels	37 Channels
CAN Communication	1 Channel	1 Channel
RS232-CAN Communication	1 Channel	1 Channel
NVReTOOL*	✓	✓
Housing Material	PC/PET+GF30	Aluminum
Dimensions (mm)	230×131×61	240.8×169.4×62.1
Weight	0.65±0.01 kg	1.26±0.01 kg
Button	7	9 (Max)
Connector	TE 776231-1 & 776262-1	TE 344108-1 & 344108-1
Protection Rating	IP66	IP65
Operating Temperature	-20 °C - +70 °C	-20 °C - +70 °C
Storage Temperature	-40 °C - +85 °C	-40 °C - +85 °C
Environmental Testing	IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T413:2002, ISO 16750-4:2010	
Electrical Performance Testing	ISO 16750-2:2012	
EMC Testing	ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019	
Product Certifications	Functional Safety, CE, FCC, UL	CE, FCC, UL
Additional Features	Built-in Overload Indicator Light	Metal Housing

* NVReTOOL is a self-developed app-based diagnostic tool that combines a wireless diagnostic box, mobile app, and device management platform. It enables easy program updates, parameter optimization, and data analysis.

* K2 is NVR internal designation for its functional safety-certified ECU platform.

Platform Control Units (PCUs)

The Platform Control Unit series includes models such as AP1100, RP1100, and RP1300, designed for a wide range of MEWP applications, including scissor lifts, rough-terrain scissor lifts, crawler scissor lifts, and mast lifts.

Applicable Equipment



Rough Terrain Scissor Lifts



Scissor Lifts



Crawler Scissor Lifts



Mast Lifts

More

Product Certifications



Rugged Design

High-standard protection design (IP65/IP67) with rigorous testing ensures stability in harsh conditions.



High Performance

Several models feature a self-developed joystick with a lifespan of up to 10 million cycles.



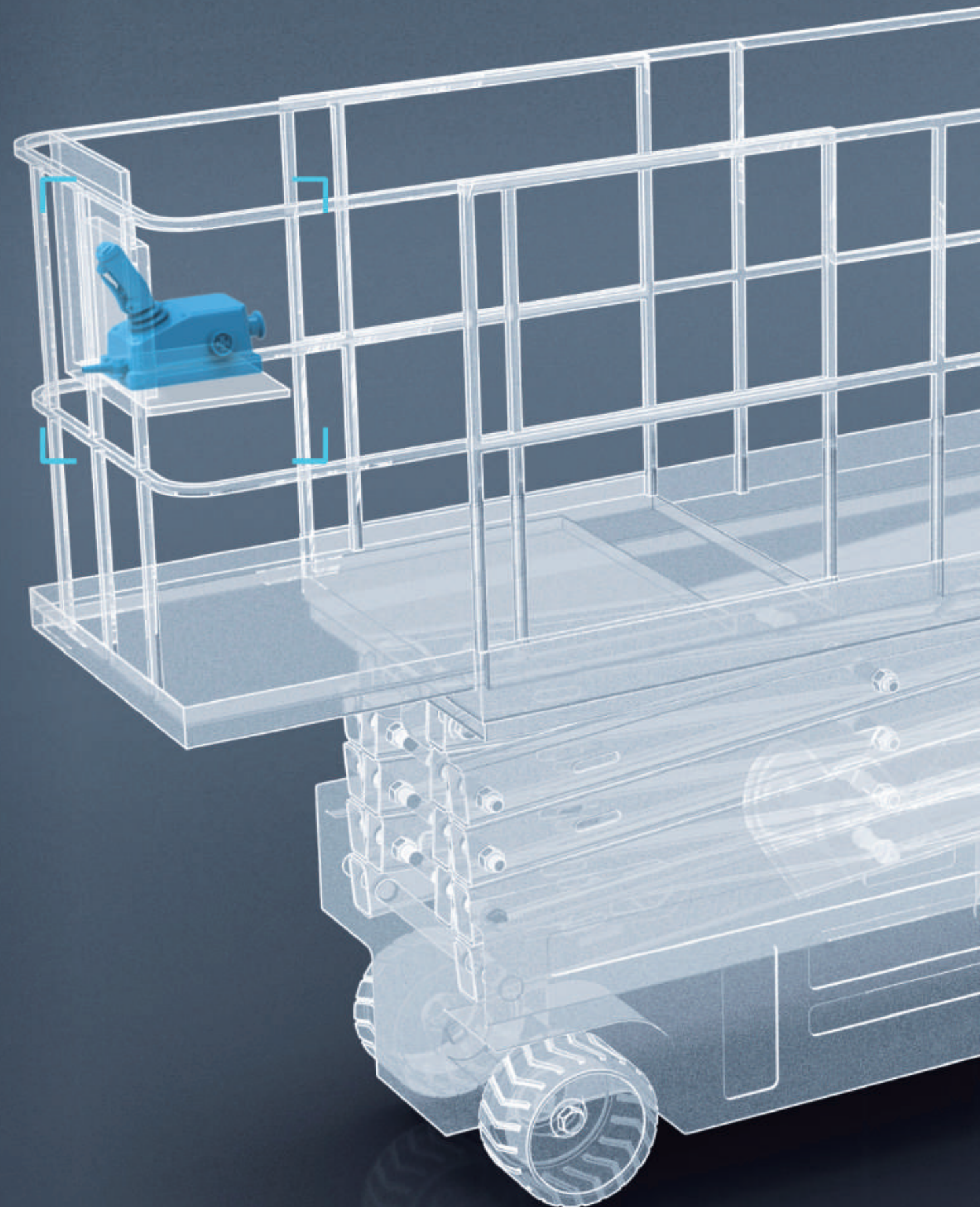
Customizable

Customizable connectors and front panels, with options to adjust and expand the number of buttons as needed.



Product Certifications

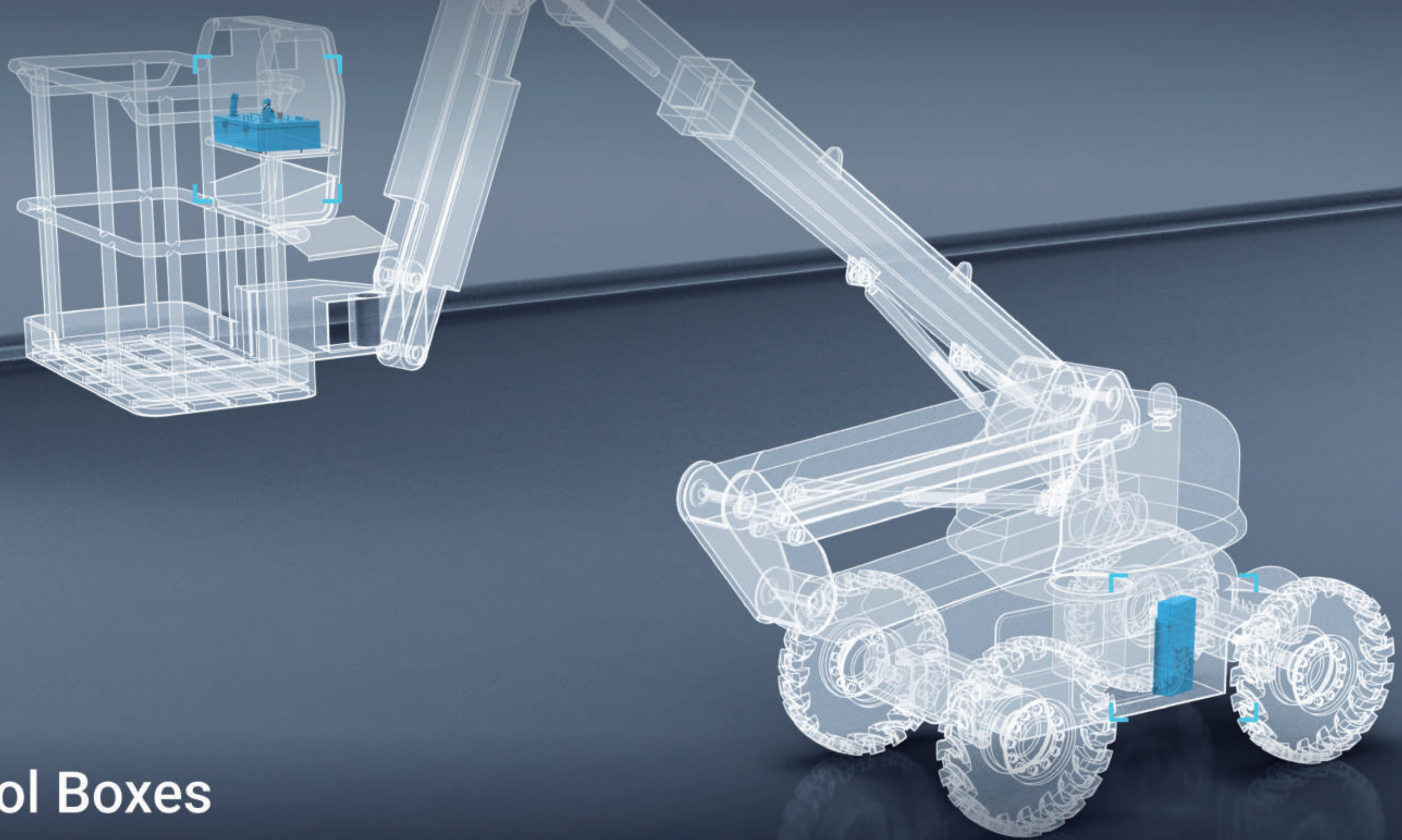
Certified to international standards, including CE, FCC, and UL, facilitating global market expansion.



Product Model	AP1100	AP1000	AP1103
Product Image			
Rated Voltage	24 V	24 V	24 V
Operating Voltage	9–32 V	9–32 V	9–32 V
Rated Current	0.05 A @ 24 V	0.05 A @ 24 V	0.05 A @ 24 V
Display Type	2-Digit LED Display	2-Digit LED Display	4-Digit LED Display
Button	4	4	6
Buzzer	✓	✓	✓
Emergency Stop	✓	✓	✓
NVReTOOL *	✓	✓	✓
Dimensions (mm)	191×123×191.5	193×125.8×238.9	191×123×191.5
Weight	1.52±0.01 kg	1.58±0.01 kg	1.48±0.01 kg
Connector	Common Connector Models: SIBAS H3A-MTGVB-PG11 / H3A-MTG-PG11, CNLINKO LP-20-C05PE-01-022, TE DT04-6P (Connectors Can Be Customized)		
Protection Rating	IP65	IP65	IP65
Operating Temperature	–40 °C - +85 °C	–40 °C - +85 °C	–40 °C - +85 °C
Storage Temperature	–40 °C - +85 °C	–40 °C - +85 °C	–40 °C - +85 °C
Environmental Testing	IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T 413:2002, ISO 16750-4:2010		
Electrical Performance Testing	ISO 16750-2:2012		
EMC Testing	ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019		
Production Certifications	CE, FCC, UL		
Additional Features	Self-developed joystick with a lifespan up to 10 million cycles		

Product Model	RP1100	RP1300	AP1004
Product Image			
Rated Voltage	24 V	12 V	24 V
Operating Voltage	9–32 V	8–32 V	9–32 V
Rated Current	0.05 A @ 24 V	0.05 A @ 12 V	0.2 A @ 24 V
Display Type	4-Digit LED Display	2-Digit LED Display	2-Digit LED Display
Button	10 (Max)	15 (Max)	4
Buzzer	✓	✓	✓
Emergency Stop	✓	✓	✓
NVReTOOL *	✓	✓	✓
Dimensions (mm)	220×142×207	220×201×203	190×215.5×202.7
Weight	1.68±0.01 kg	2.11±0.01 kg	3.5±0.01 kg
Connector	Common Connector Models: SIBAS H3A-MTGVB-PG11 / H3A-MTG-PG11, CNLINKO LP-20-C05PE-01-022, TE DT04-6P (Connectors Can Be Customized)		
Protection Rating	IP66	IP65	IP65
Operating Temperature	–40 °C - +85 °C	–40 °C - +85 °C	–40 °C - +85 °C
Storage Temperature	–40 °C - +85 °C	–40 °C - +85 °C	–40 °C - +85 °C
Environmental Testing	IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T 413:2002, ISO 16750-4:2010		
Electrical Performance Testing	ISO 16750-2:2012		
EMC Testing	ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019		
Production Certifications	CE, FCC, UL		
Additional Features	Self-developed joystick with a lifespan up to 10 million cycles		Equipped with a circular support handle for easy operation

* NVReTOOL is a self-developed app-based diagnostic tool that combines a wireless diagnostic box, mobile app, and device management platform. It enables easy program updates, parameter optimization, and data analysis.



Control Boxes

The Control Box series includes both platform control units and ground control units, designed for a variety of MEWP applications, including telescopic boom lifts, articulated boom lifts, and spider lifts.

Applicable Equipment



Telescopic
Boom
Lifts



Articulated
Boom
Lifts



Spider
Lifts

[More](#)



Customizable

Customizable components, including displays, controllers, control box, membrane, and joystick, to meet diverse requirements.



Advanced Control Capabilities

Equipped with extensive digital and analog I/O interfaces to fully support the complex control needs of boom lifts.



Rugged

The control box is made of sheet metal, ensuring high protection standards and reliable operation in harsh conditions.



BP1100



BP1102



BP1108



BP2000

Product Model	BP1100	BP1102	BP1108	BP2000
Control Box Dimensions (mm)	590×270×140.5	620×350×145.5	698.5×308×166	600×268.1×158.2
Controller Model*	PC1000, PC1400, PC3000, PC7100			
Control Box Material	Sheet Metal			
Protection Rating	IP65			
Operating Temperature	-30°C - +70°C			
Storage Temperature	-40°C - +85°C			
Environmental Testing	IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T 413:2002, ISO 16750-4:2010			
Electrical Performance Testing	ISO 16750-2:2012			
EMC Testing	ISO 16750-2:2012, ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019			
Product Features	Customizable components, including displays, controllers, control box, membrane, and joystick, to meet diverse requirements			



BS1100



BS1102



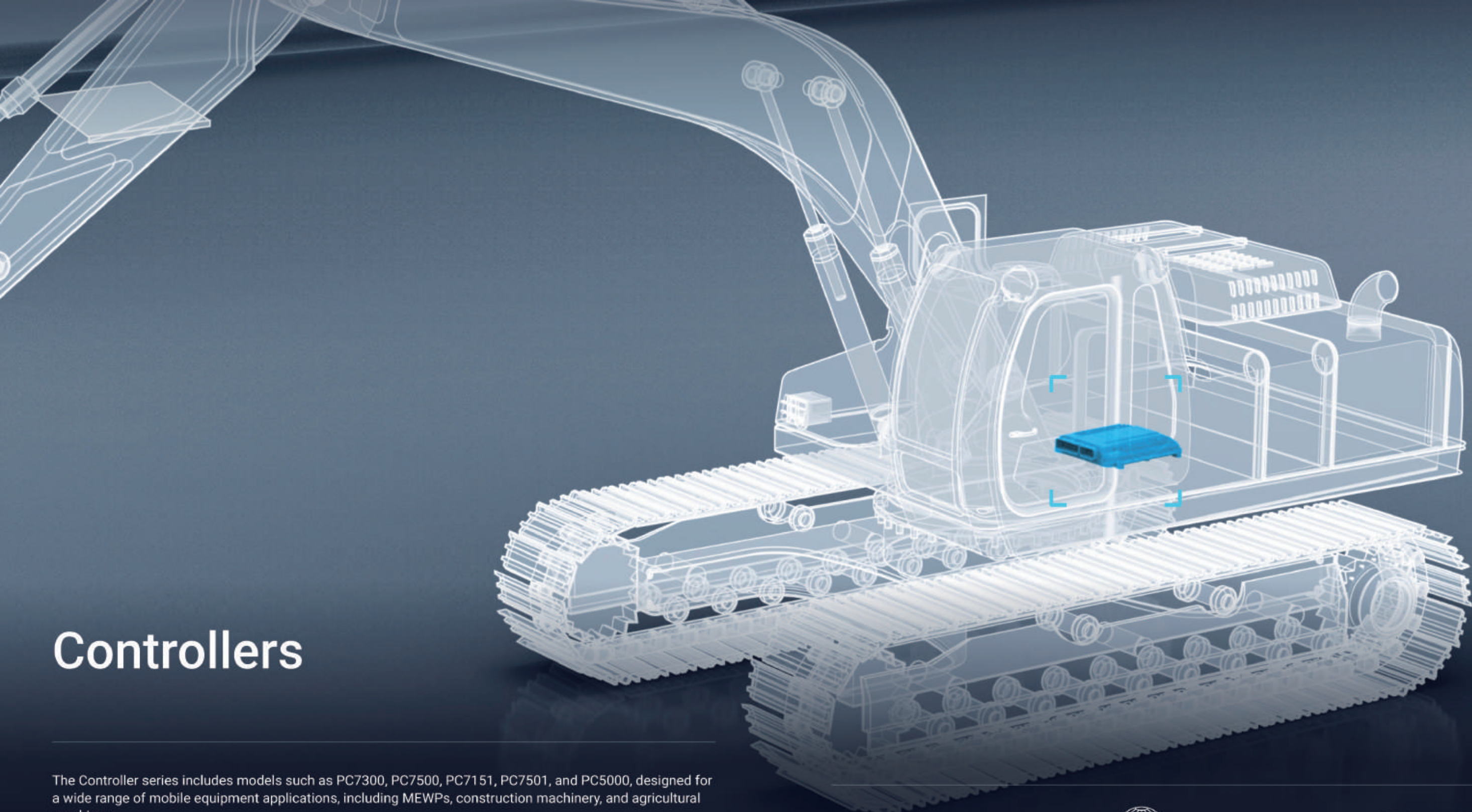
BS1108



BS2000

Product Model	BS1100	BS1102	BS1108	BS2000
Control Box Dimensions (mm)	700×350×135	294.12×410×270.5	340×380×180	444.7×406×175
Display Model*	DP1300-7	DP1300-7	DP1300-7	DP201
Controller Model*	PC7300, PC7500			
Control Box Material	Sheet Metal			
Protection Rating	IP65			
Operating Temperature	-30°C - +70°C			
Storage Temperature	-40°C - +85°C			
Environmental Testing	IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T 413:2002, ISO 16750-4:2010			
Electrical Performance Testing	ISO 16750-2:2012			
EMC Testing	ISO 16750-2:2012, ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019			
Product Features	Customizable components, including displays, controllers, control box, membrane, and joystick, to meet diverse requirements			

* For technical specifications and performance parameters of the display, please refer to page 35-36. For technical specifications and performance parameters of the controller, please refer to page 21-22.



Controllers

The Controller series includes models such as PC7300, PC7500, PC7151, PC7501, and PC5000, designed for a wide range of mobile equipment applications, including MEWPs, construction machinery, and agricultural machinery.

Applicable Equipment

- 
Haul trucks
- 
Scissor Lifts
- 
Boom Lifts
- 
Telehandlers
- 
Excavators
- 
Material Handling
- [More](#)

Product Certifications



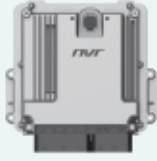
Functional Safety
Certified to ISO 13849-1:2023 functional safety standards.

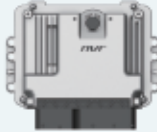


Versatile I/O Options
Pin count ranging from 64 to 154, allowing customers to select I/O port based on requirements.



Supports Secondary Development
Customizable controller software to meet specific requirements.

Product Model		PC7300	PC7500	PC7501
Product Image				
Pin Count		154 Pin	154 Pin	94 Pin
Rated Voltage		12 V / 24 V		
Operating Voltage		8–36 V		
Standby Current		0.2 A @ 12 V		
Processor		Infineon CYT4BF, ARM Cortex Tri-core		
Inputs	Total	75 Channels	59 Channels	37 Channels
	Digital Input, Analog Voltage	46 Channels	31 Channels	11 Channels
	Digital Input, Analog Voltage/Current	10 Channels	10 Channels	9 Channels
	Digital Input, Analog Voltage/Resistance	4 Channels	4 Channels	4 Channels
	Digital Input, Analog Voltage, Frequency	14 Channels	14 Channels	13 Channels
	Differential Voltage	1 Channel	-	-
Outputs	Total	45 Channels	59 Channels	25 Channels
	High-Side Current-Controlled/PWM/Digital	32 Channels	22 Channels	9 Channels
	Low-Side Current-Controlled/PWM/Digital	10 Channels	20 Channels	10 Channels
	High-Side Digital	-	4 Channels	1 Channel
	Low-Side Digital	-	11 Channels	4 Channels
	Analog Voltage Output	2 Channels	2 Channels	1 Channel
	Analog Current Output	1 Channel	-	-
Sensor Power		2×5 V, 1×10 V	5×5 V, 1×10 V	5×5 V, 1×10 V
CAN Communication		4 CAN, 1 Ethernet	4 CAN, 1 Ethernet, 1 LIN	4 CAN, 1 Ethernet, 1 LIN
Development Language		CODESYS / Simulink / C		
Dimensions (mm)		204.5×203×40.5	207.5×203×41.1	207.5×203×41.1
Weight		0.83±0.01 kg	0.82±0.01 kg	0.80±0.01 kg
Protection Rating		IP67		
Temperature Range		Operating: -40 °C - +85 °C, Storage: -40 °C - +105 °C		
Environmental Testing		IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T 413:2002, ISO 16750-4:2010		
Electrical Performance Testing		ISO 16750-2:2012		
EMC Testing		ISO 16750-2:2012, ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019		
Product Certifications		Functional Safety, CE, FCC, UL, CSA	Functional Safety, CE, FCC, UL	

Product Model		PC5000	PC3000	PC1400
Product Image				
Pin Count		94 Pin	80 Pin	64 Pin
Rated Voltage		12 V / 24 V		
Operating Voltage		8–36 V		
Standby Current		0.2 A @ 12 V	0.12 A @ 12 V	0.12 A @ 12 V
Processor		Infineon CYT4BF, ARM Cortex Tri-core		
Inputs	Total	37 Channels	39 Channels	31 Channels
	Digital Input, Analog Voltage	11 Channels	12 Channels	17 Channels
	Digital Input, Analog Voltage/Current	9 Channels	10 Channels	6 Channels
	Digital Input, Analog Voltage/Resistance	4 Channels	3 Channels	4 Channels
	Digital Input, Analog Voltage, Frequency	13 Channels	14 Channels	4 Channels
	Differential Voltage	-	-	-
Outputs	Total	25 Channels	24 Channels	14 Channels
	High-Side Current-Controlled/PWM/Digital	9 Channels	20 Channels	14 Channels
	Low-Side Current-Controlled/PWM/Digital	10 Channels	4 Channels	-
	High-Side Digital	1 Channel	-	-
	Low-Side Digital	4 Channels	-	-
	Analog Voltage Output	1 Channel	-	-
	Analog Current Output	-	-	-
Sensor Power		5×5 V, 1×10 V	2×5 V, 1×10 V	3×5 V, 1×10 V
CAN Communication		4 CAN, 1 Ethernet, 1 LIN	3 CAN	2 CAN
Development Language		CODESYS / Simulink / C		
Dimensions (mm)		169.2×202.8×45.3	190.5×202.6×42.2	171.1×148.7×46.6
Weight		0.66±0.01 kg	0.78±0.01 kg	0.50±0.01 kg
Protection Rating		IP67		
Temperature Range		Operating: -40 °C - +85 °C, Storage: -40 °C - +105 °C		
Environmental Testing		IEC 60068-2-11:2021, ISO 16750-3:2012, QC/T 413:2002, ISO 16750-4:2010		
Electrical Performance Testing		ISO 16750-2:2012		
EMC Testing		ISO 16750-2:2012, ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019		
Product Certifications		Functional Safety, CE, FCC, UL		

Telematics Box

The Telematics Box series includes models such as TX4000 and TX4100, designed for a wide range of mobile equipment applications, including MEWPs, construction machinery, agricultural machinery, commercial vehicles, and material handling equipment.

Applicable Equipment



Product Certifications



Accuracy Positioning

Supports GPS dual mode positioning for accuracy-precision, real-time data.



Low Power Consumption

Built-in high-capacity battery for up to 3 months of standby time.

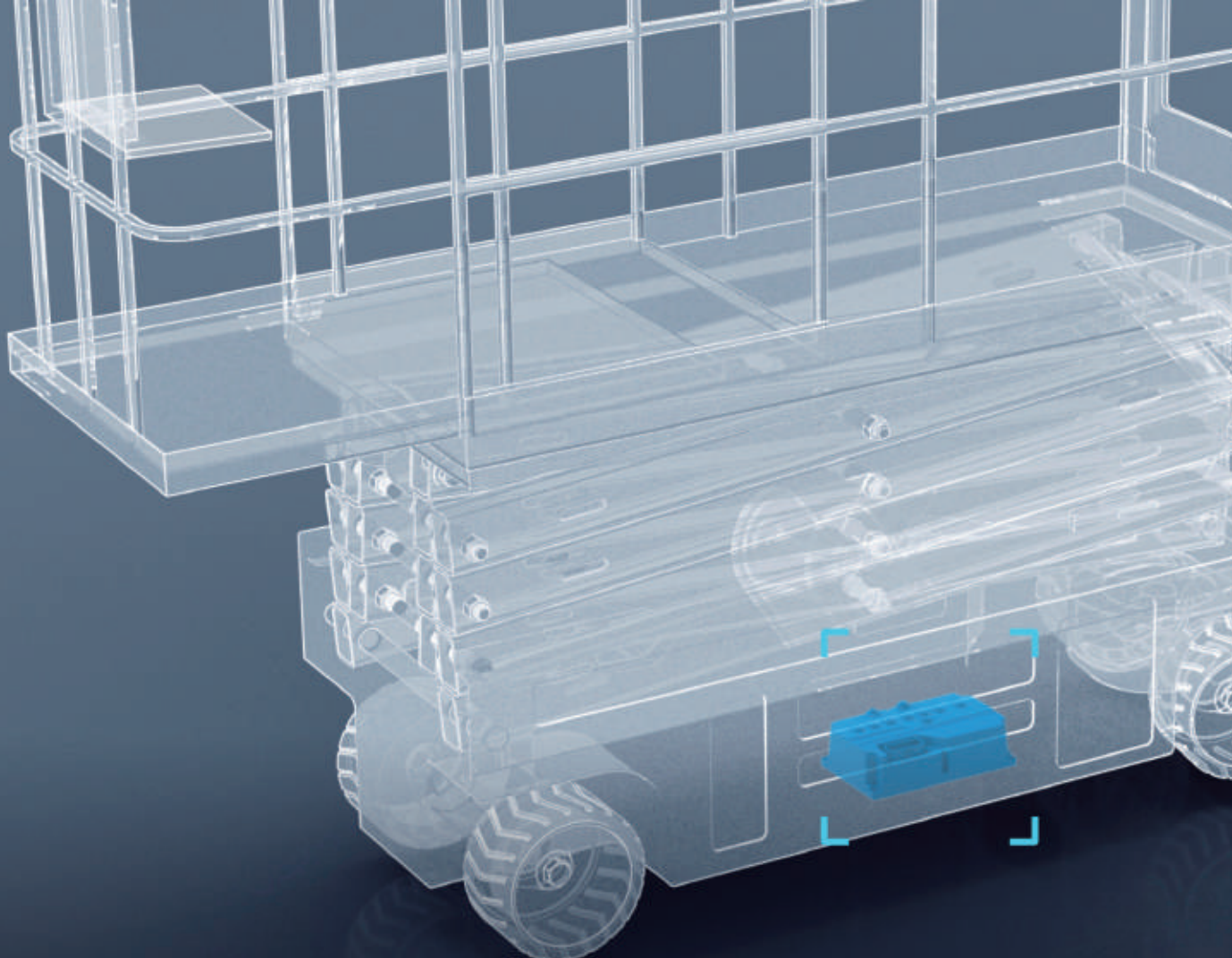


Secure Data Storage

Stores data offline for over 2 months and retransmits when network is available, ensuring data integrity and security.

Product Model	TX4000	TX4100	TX6000
Product Image			
Rated Current	≤ 50 mA @ 24 V	≤ 85 mA @ 24 V	≤ 50 MA @ 24 V
Operating Voltage	8–36 V	8–36 V	9–58 V
CPU	Cortex-M4, 80 MHz	Cortex-M7, 528 MHz	Cortex-M7, 528 MHz
Max Input Port	2 Channels (AI/DI)	2 Channels (AI/DI)	6 Channels (AI/DI)
Max Output Port	4 Channels (Max 2 A)	2 Channels (Max 500 mA)	2 Channels (Max 500 mA)
CAN Communication	2 Channels	3 Channels	2 Channels
RS232	1 Channel	1 Channel	-
RS485	1 Channel	Optional	1 Channel
Cellular Communication	4G.CAT1 / CAT4	4G.CAT1 / 4G.CAT4	CAT1 / CATM
Bluetooth Version	Version ≥ 5.2	Version ≥ 5.2	Bluetooth 5.2
Wi-Fi	Wi-Fi 4	Wi-Fi 4	Wi-Fi 4
Ethernet	-	Optional	-
Data Storage	16 MB	8 GB	16 MB–64 GB (Optional)
Accelerometer	3-Axis Accelerometer	3-Axis Accelerometer / 6-Axis Accelerometer	3-Axis Accelerometer
Barometer	-	Optional	-
OTA	✓	✓	✓
GPS/Base Station	✓	✓	✓
Secondary Development	-	✓	✓
Standby Time	≥ 90 Days	≥ 90 Days	≥ 90 Days
Design Life	5 Years (Excluding Battery)	5 Years (Excluding Battery)	5 Years (Excluding Battery)
Dimensions (mm)	130.8×125.6×33.7	130.8×125.6×33.8	117.14×30.1×53.1
Weight	0.254±0.01 kg	0.254±0.01 kg	0.31±0.01 kg*
Protection Rating	IP65 / IP67	IP65 / IP67	IP65 / IP67 / IP69 (Built-in antenna required for IP69)
Operating Temperature	-30 °C - +70 °C	-30 °C - +70 °C	-30 °C - +70 °C
Storage Temperature	-40 °C - +80 °C	-40 °C - +80 °C	-40 °C - +80 °C
Product Certifications	CE, FCC and Other International Certifications	CE, FCC	In Progress

*product under development. specifications subject to change without notice.



Motor Controllers

The Motor Controller series includes single DC motor controllers, single AC motor controllers, and multifunctional motor controllers, designed for a wide range of off-highway equipment, including MEWPs, electric forklifts, electric golf carts, and material handling equipment.

Applicable Equipment

More

Product Certifications

Wide Applications

Wide voltage and current ranges (24 V–80 V, 150 A–650 A) to accommodate various vehicle and equipment types.

Seamless Integration

Support all-in-one integration for easy installation and maintenance.

Functional Safety

Certified to ISO 13849-1:2023 functional safety standards.

Motor Controller Specification Table								
Drive Type	Product Model	Product Sub-Model	Voltage Rating	Operating Voltage	Output Current (AC) 2-Minute Max Current 60-Minute Max Current		Output Current (DC) 2-Minute Max Current 60-Minute Max Current	
DC Motor Controller	DD1100	DD1100-2436	24 V	13–32 V	-	-	360 A	200 A
3×DC Motor Controller + ECU	DH1100	DH1100-2418	24 V	13–32 V	-	-	150 A × 1 180 A × 2	120 A × 1 40 A × 2
AC Motor Controller	DA2000	DA2000-2425	24 V	13–32 V	250 A	130 A	-	-
		DA2000-2435	24 V	13–32 V	350 A	175 A	-	-
		DA2000-4825	48 V	32–63 V	250 A	130 A	-	-
		DA2000-4835	48 V	32–63 V	350 A	175 A	-	-
		DA2000-8015	80 V	55–105 V	150 A	80 A	-	-
		DA2000-8025	80 V	55–105 V	250 A	250 A	-	-
	DA3000	DA3000-4855	48 V	32–63 V	550 A	225 A	-	-
		DA3000-4875	48 V	32–63 V	750 A	350 A	-	-
		DA3000-8055	80 V	55–105 V	550 A	275 A	-	-
		DA3000-8065	80 V	55–105 V	650 A	325 A	-	-
Integrated Motor+Inverter	DH1300	DH1300-2410	24 V	13–32 V	200 A	80 A	-	-
		DH1300-2418	24 V	13–32 V	250 A	100 A	-	-
		DH1300-8035-P	80 V	55–105 V	350 A	120 A	-	-
		DH1300-8045-P	80 V	55–105 V	450 A	150 A	-	-
		DH1300-8055-P	80 V	55–105 V	550 A	175 A	-	-
		DH1300-8035-T	80 V	55–105 V	350 A	120 A	-	-
		DH1300-8045-T	80 V	55–105 V	450 A	150 A	-	-
		DH1300-8055-T	80 V	55–105 V	550 A	175 A	-	-
2×AC + 1×DC Motor Controller	DH1500	DH1500-2412	24 V	13–32 V	120 A × 2	60 A × 2	240 A	130 A
		DH1500-2425	24 V	13–32 V	250 A × 2	80 A × 2	240 A	130 A
		DH1500-4812	48 V	32–63 V	120 A × 2	60 A × 2	240 A	130 A
		DH1500-4825	48 V	32–63 V	250 A × 2	85 A × 2	240 A	130 A
2×AC Motor Controller	DH1501	DH1501-2412	24 V	13–32 V	120 A × 2	60 A × 2	-	-
		DH1501-2425	24 V	13–32 V	250 A × 2	85 A × 2	-	-
		DH1501-4812	48 V	32–63 V	120 A × 2	60 A × 2	-	-
		DH1501-4825	48 V	32–63 V	250 A × 2	85 A × 2	-	-

P*: stands for Pump Motor. T**: stands for Traction Motor.

Product Model	DD1100	DH1100	DA2000	DA3000
Product Image				
Motor Type	BDC	BDC/BLDC/AC Induction Motor	AC Induction Motor/ PMSM/BLDC	AC Induction Motor/ PMSM/BLDC
Battery Temperature Sensor PT1000	-	-	✓	✓
Battery Temperature Sensor KTY84-130/150	-	-	✓	✓
Pin Count	6 Pin	35 Pin	35 Pin	35 Pin
Max Input Port	1 Channel	15 Channels	DI: 9 / AI: 3	DI: 9 / AI: 3
Max Output Port	1 Channel	13 Channels	DO: 7 / AO: 1	DO: 7 / AO: 1
CAN Communication	-	1 Channel	2 Channels	2 Channels
RS485	1 Channel	1 Channel (Reserved)	-	-
Dimensions (mm)	131×134×63	248×150×67	180×138×74	230×200×74
Weight	1.21±0.01 kg	2.25±0.01 kg	1.53±0.01 kg	3.44±0.01 kg
Installation Dimensions (mm)	133.4×130.2	228×138	168×126	216×186
Terminal Screw Type	≥M6×15	≥M6×15	≥M6×15	≥M8×10
Cooling Method	Air Cooling			
Protection Rating	IP67			
Operating Temperature	-40 °C - +55 °C			
Storage Temperature	-40 °C - +85 °C			
Environmental Testing	IEC 60068-2-11:2021, QC/T 413:2002, ISO 16750-4:2010			
Electrical Performance Testing	ISO 16750-2:2012			
EMC Testing	ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019			
Product Certifications	In Progress			

Product Model	DH1500	DH1501	DH1300	DH1300 -8035-T	DH1300 -8045-P
Product Image					
Motor Type	AC Induction Motor/PMSM/ BLDC	AC Induction Motor/PMSM/ BLDC	PMSM	PMSM	PMSM
Battery Temperature Sensor PT1000	✓	✓	✓	✓	✓
Battery Temperature Sensor KTY84-130/150	✓	✓	✓	✓	✓
Pin Count	35 Pin	35 Pin	8 Pin	8 Pin	8 Pin
Max Input Port	DI: 10 / AI: 6	DI: 10 / AI: 6	3 Channels	3 Channels	3 Channels
Max Output Port	8 Channels	8 Channels	1 Channel	1 Channel	1 Channel
CAN Communication	2 Channels	2 Channels	1 Channel	1 Channel	1 Channel
RS485	-	-	-	-	-
Dimensions (mm)	206×150×70.2	206×150×70.2	269×140×228	412×231×231	359×246×297
Weight	2.25±0.01 kg	2.25±0.01 kg	14.5±0.01 / 10±0.01 kg	58±0.01 kg	45±0.01 kg
Installation Dimensions (mm)	192×136	192×136	(187 / 143 / 120) ×101.6	Φ250 mm 4×Φ22 mm	216×130 mm 4×Φ12 mm
Terminal Screw Type	≥ M6×15	≥ M6×15	≥M6×15	M8	M8
Cooling Method	Air Cooling				
Protection Rating	IP67				
Operating Temperature	-40 °C - +55 °C				
Storage Temperature	-40 °C - +85 °C				
Environmental Testing	IEC 60068-2-11:2021, QC/T 413:2002, ISO 16750-4:2010				
Electrical Performance Testing	ISO 16750-2:2012				
EMC Testing	ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 11452-4:2020, ISO 11452-2:2019				
Product Certifications	In Progress		Functional Safety, UL, CE	In Progress	

Chargers

The Charger series includes models such as CG1100-2430, designed for scissor lifts, boom lifts, mast lifts, electric golf carts, and other off-highway equipment.

Applicable Equipment



Scissor Lifts



Boom Lifts



Mast Lifts



Electric Golf Carts



Floor scrubbers

More



High Efficiency

Up to 93% efficiency at full load. The patented scaled-fin design enhances cooling efficiency.



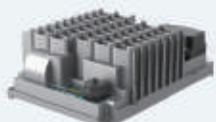
Battery Protection

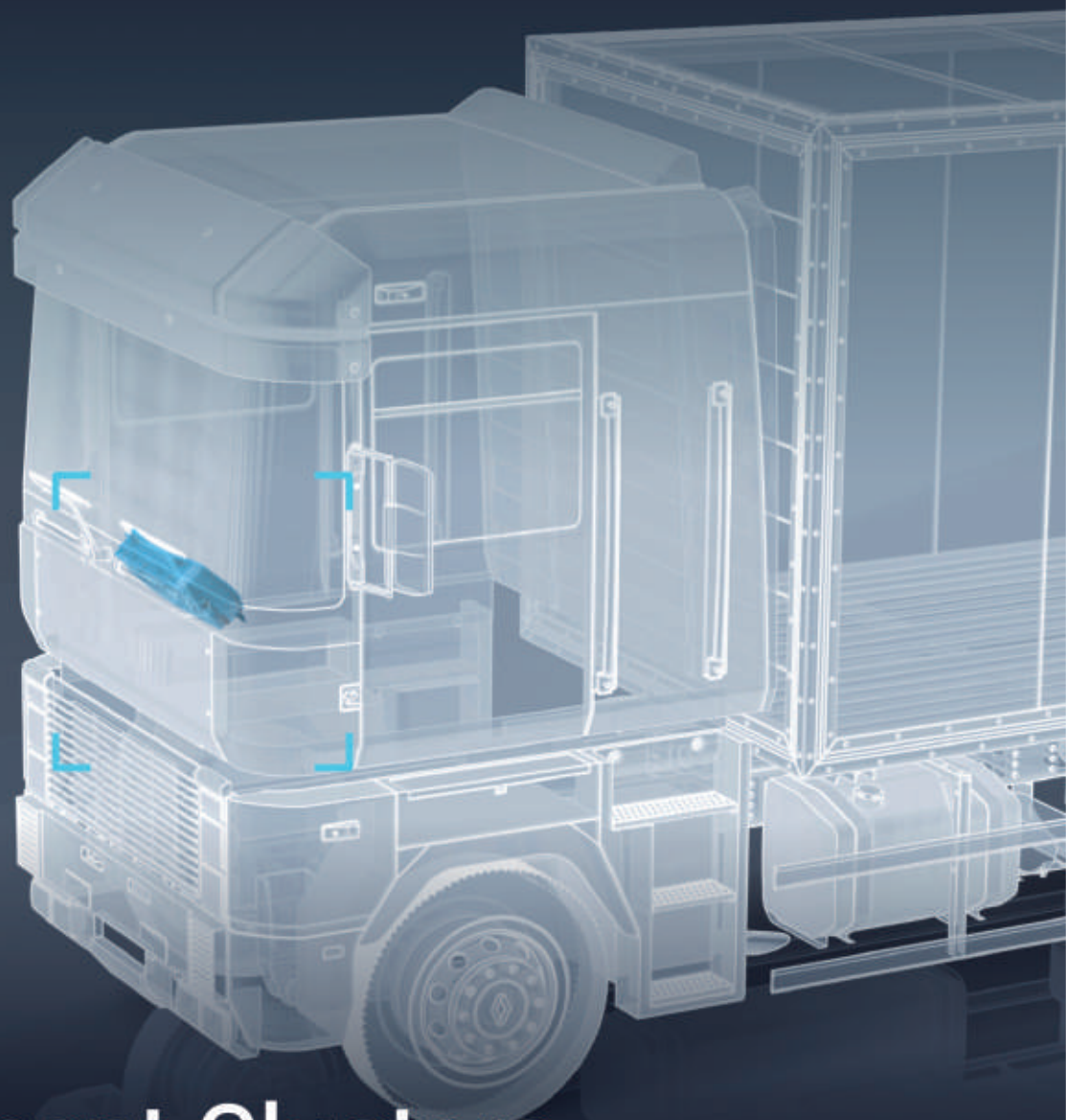
Support balance charging, auto low-voltage recharge and temperature compensation for extended battery life.



Flexible and Convenient

Compatible with lithium and lead-acid batteries, multiple charging profiles for varied battery types.

Product Model	CG1100-2430	CG1000-2436
Product Image		
Input Voltage Range	85–270 V AC	
Input Frequency Range	50 / 60 Hz ± 1 Hz	
Efficiency	>93% @ 230 V AC; >90% @ 120 V AC	
Power Factor	>0.98 @ 230 V AC; >0.99 @ 120 V AC	
Battery Type	Lithium, Lead-Acid Battery (Flooded / AGM / GEL)	
Max Input Current	8.9 A	10 A
Max Output Power	750 W	900 W
Output Voltage Range	1.2–36 V	5–34 V
Max Output Current	30 A	36 A
Output Voltage Accuracy	±1%	±1%
Output Current Accuracy	±3%	±3%
Max Interlock Signal Current	3 A	3 A
Bluetooth Communication	Bluetooth 5.0	Bluetooth 5.0
CAN Communication	1 Channel	1 Channel
USB	USB 2.0 Host Port (Type A) With Dust Cover	
AC Input Connector	IEC 60320 C14 Inlet	
DC Output Connector	M6 Terminal	WIRE HARNESS / RNB5.5-8
Display Type	3-Digit LED Display	3-Digit LED Display
LED Light	4	4
Button	2	2
Dimensions (mm)	252×186×90	209×180×160
Weight	3±0.01 kg	5±0.01 kg
Cooling	Passive Cooling (Operable In Any Orientation)	
Protection	Reverse Polarity, Short-circuit, Overvoltage, Overcurrent, And Overtemperature Protection	
Protection Rating	IP67, IP66	
Operating Temperature	–40 °C - +65 °C	
Storage Temperature	–40 °C - +85 °C	
EMC Testing	FCC PART 15, ICES 001 CLASS A, EN 55011, EN 61000-6-4, EN 61000-3-2, EN 61000-3-3, EN 61000-6-2	



Instrument Clusters

The Instrument Cluster series includes models in a variety of sizes, such as IP4001-54, IP4003-74, and IP4004-5, designed for a wide range of off-highway equipment, including loaders, mining trucks, and commercial vehicles.

Applicable Equipment



Wheel Loaders



Mining Trucks



Commercial Vehicles

More



Versatile Display Options

Screen sizes from 5" to 7" with TFT screens for various environments.



User-Friendly Interface

High-brightness, wide-angle screens suitable for outdoor and industrial environments.



Extensive Ports

Multiple input, output, and communication ports enable data collection, display, control, and expandability.

Product Model	IP4001-54	IP4002-74	IP4003-74	IP4004-5
Product Image				
LCD Size	5 Inch	7 Inch	7 Inch	5 Inch
Resolution	800×480	800×480	800×480	800×480
Display Type	TFT	TFT	TFT	TFT
LCD Brightness (cd/m²)	500	1000	1000	1000
Viewing Angle (L/RT/B)	80 / 80 / 80 / 80	70 / 70 / 60 / 70	70 / 70 / 60 / 70	80 / 80 / 80 / 80
CPU	Cortex-M7	Cortex-M7	Cortex-M7	MCU + SOC
RTC	✓	✓	✓	-
Video Input	-	2 Channels	-	-
Operating Voltage	9~36 V	9~36 V	9~36 V	9~36 V
Max Input Port	40 Channels	31 Channels	41 Channels	45 Channels
Max Output Port	1 Channel	2 Channels	1 Channel	6 Channels
CAN Communication	2 Channels	2 Channels	1 Channel	2 Channels
Other Communications	-	-	1 Channel RS232	1 Channel USB
OTA	✓	✓	✓	✓
Dimensions (mm)	358×158×75.25	358×173.3×75.85	367×181×59.2	372.7×177×74
Weight	1.08±0.01 kg	1.18±0.01 kg	1.28±0.01 kg	1.22±0.01 kg
Connector	TE 776228-1 TE 776228-2	TE 776228-1 TE 776228-2	TE 174979-2 THB PP1510001	TE 2137614-1 TE 2137614-2
Protection Rating	IP65	IP65	IP65	IP54 (Front) IP20 (Back)
Operating Temperature	-30 °C ~ +70 °C	-30 °C ~ +70 °C	-30 °C ~ +70 °C	-30 °C ~ +70 °C
Storage Temperature	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C	-40 °C ~ +85 °C
Environmental Testing	ISO 16750-4:2010, IEC 60068-2-11:2021, ISO 16750-3:2012			
Electrical Performance Testing	ISO 16750-2:2012			
EMC Testing	ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 13766-1:2018			

Displays

The Display series includes a wide range of display models, such as DP201 and DP1200-7, designed for scissor lifts, telescopic boom lifts, forklifts, excavators, and agricultural machinery.

Applicable Equipment



Haul trucks



Scissor Lifts



Boom Lifts



Telehandlers



Excavators



Agricultural Machinery



Material Handling

More

Product Certifications



Variety of Sizes

Available in sizes from 3.2" to 10.1" with resolutions from 128x64 to 1280x800, suitable for various space and visual requirements.



User-Friendly

High-brightness, wide-angle screens suitable for outdoor and industrial environments; some models support touch functionality for easy control.



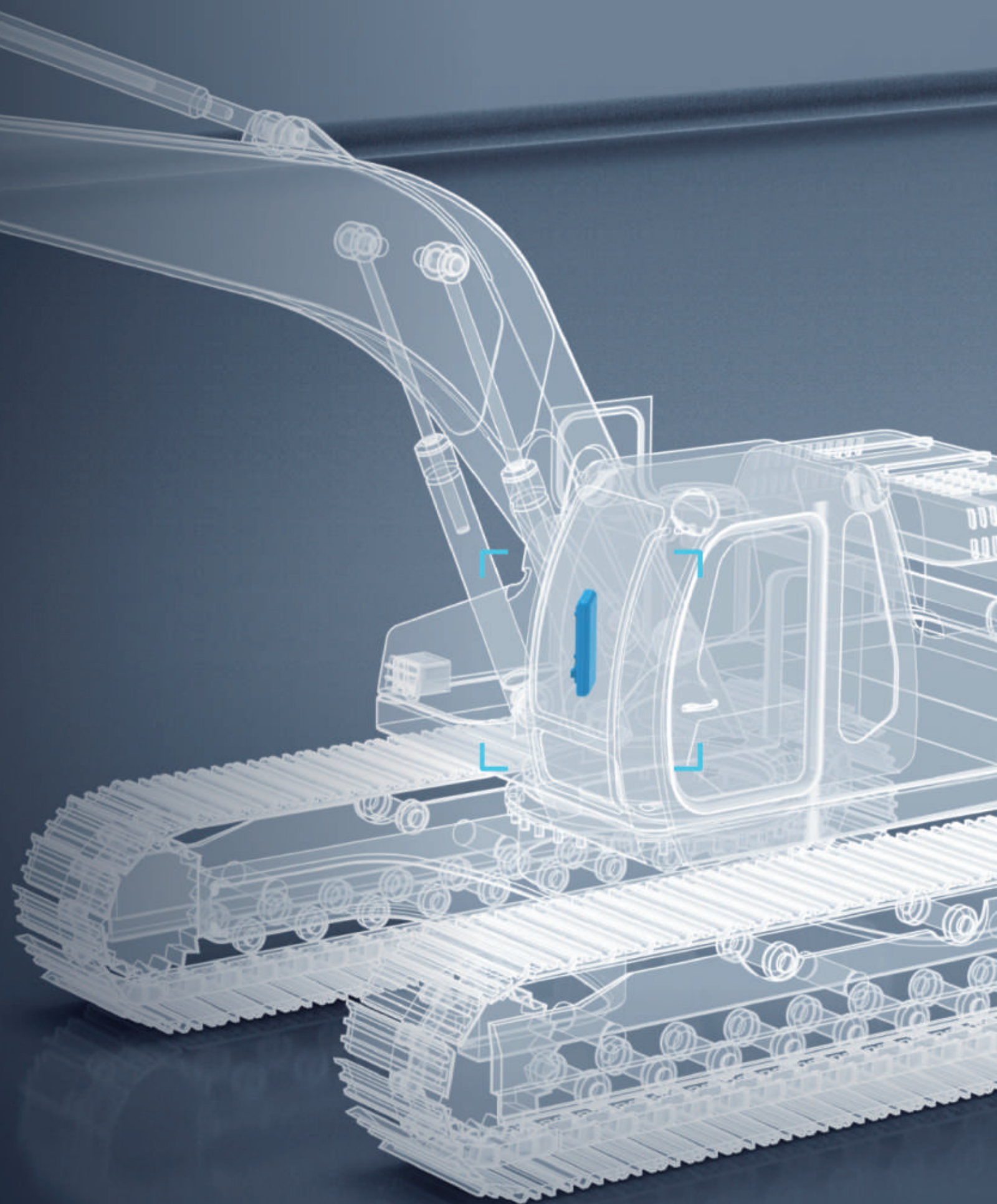
Extensive Ports

Equipped with multiple input, output, and communication ports for data collection, display, control, and communication functions.



Modular Design

Card-style design layout for easy customization and consistent user interface.



Product Model	DP201	DP1700-5.7	DP1200-7	DP1300-7	DP1600-7
Product Image					
LCD Size	3.2 Inch	5.7 Inch	7 Inch	7 Inch	7 Inch
Resolution	128×64	640×480	800×480	800×480	800×480
Display Type	LCD	TFT	TFT	TFT	IPS
LCD Brightness (cd/m²)	400	700	1000	1000	1000
Viewing Angle (L/R/T/B)	45 / 45 / 30 / 60	80 / 80 / 80 / 80	70 / 70 / 60 / 70	70 / 70 / 60 / 70	85 / 85 / 85 / 85
Touchscreen	-	-	✓	-	✓
CPU	Cortex-M33	Dual ARM	Cortex-M7	Cortex-M7	Dual ARM
Operating System	-	Free RTOS	RT-Thread	RT-Thread	FreeRTOS
Video Input	-	-	-	-	1 channel
Operating Voltage	9~32 V	9~36 V	8~32 V	9~32 V	8~32 V
Max Input Port	6 Channels	2 Channels	15 Channels	3 Channels	16 Channels
Max Output Port	3 Channels	4 Channels	5 Channels	1 Channel	7 Channels
CAN Communication	1 Channel	2 Channels	2 Channels	2 Channels	2 Channels
Serial Communication	-	1 Channel RS232	1 Channel RS232	-	1 Channel
USB	✓	✓	-	✓	✓
Wi-Fi	Optional	-	-	Optional	-
OTA	✓	✓	✓	✓	✓
Dimensions (mm)	115×131×50.9	196×131×43.2	130.2×216.2 ×53.5	230.3×141.9 ×44.2	186.96×116.46 ×41
Weight	0.25±0.01 kg	0.37±0.01 kg	0.68±0.01 kg	0.65±0.01 kg	0.49±0.01 kg
Connector	TE 776262-1	JHB00530-26P	TE 776231-1	TE DT06-12SA	TE 776164-1
Protection Rating	IP67 (Front) IP65 (Back)	IP65	IP67	IP67 (Front) IP65 (Back)	IP65
Operating Temperature	-20 °C - +70 °C	-30 °C - +80 °C	-30 °C - +80 °C	-30 °C - +70 °C	-30 °C - +80 °C
Storage Temperature	-40 °C - +85 °C	-30 °C - +80 °C	-40 °C - +85 °C	-40 °C - +85 °C	-40 °C - +85 °C
Environmental Testing	ISO 16750-4:2010, IEC 60068-2-11:2021, ISO 16750-3:2012				
Electrical Performance Testing	ISO 16750-2:2012				
EMC Testing	ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 13766-1:2018				
Product Certifications	CE, FCC, ETL		In Progress		CE, FCC, ETL

Product Model	DP1610-7	DP7100-8	DP1508	DP7300-A2	DP7400-A1
Product Image					
LCD Size	7 Inch	8 Inch	8 Inch	10.1 Inch	10.1 Inch
Resolution	800×480	1280×720	800×480	1280×800	1024×600
Display Type	TFT	TFT	TFT	IPS	TFT
LCD Brightness (cd/m²)	1000	800	400	850	900
Viewing Angle (L/R/T/B)	85 / 85 / 85 / 85	85 / 85 / 85 / 85	70 / 70 / 50 / 70	80 / 80 / 80 / 80	80 / 80 / 60 / 70
Touchscreen	✓	✓	-	✓	✓
CPU	MCU + SOC	Cortex-A9	Dual ARM	Cortex-A55	32-Bit RISC
Operating System	FreeRTOS	Linux	FreeRTOS	Linux	RT-Thread
Video Input	2 Channels	4 Channels	1 Channel	4 Channels	4 Channels
Operating Voltage	8~32 V	9~36 V	9~36 V	8~36 V	8~32 V
Max Input Port	26 Channels	6 Channels	17 Channels	-	-
Max Output Port	9 Channels	1 Channel	1 Channel	-	1 Channel
CAN Communication	1 Channel	2 Channels	1 Channel	2 Channels	1 Channel
Serial Communication	-	-	-	✓	-
USB	✓	✓	✓	✓	✓
Wi-Fi	-	-	-	✓	-
OTA	✓	✓	-	✓	-
Dimensions (mm)	186.96×116.46 ×41.76	138.8×277.8 ×49.6	228×167×62.5	162.4×254.2 ×39.4	372.7×177×74
Weight	0.53±0.01 kg	1.1±0.01 kg	0.74±0.01 kg	1.5±0.01 kg	0.74±0.01 kg
Connector	TE 6437288-1	TE DT15-6P TE DT15-12P	Misconn WB4201A-212S- BAND	AMP 26-Pin 1437288-6	TE DT04-4P GX12-6P
Protection Rating	IP65	IP65	IP65	IP65	IP66
Operating Temperature	-30 °C - +80 °C	-30 °C - +80 °C	-30 °C - +70 °C	-30 °C - +80 °C	-30 °C - +70 °C
Storage Temperature	-40 °C - +85 °C	-40 °C - +85 °C	-40 °C - +85 °C	-40 °C - +80 °C	-40 °C - +85 °C
Environmental Testing	ISO 16750-4:2010, IEC 60068-2-11:2021, ISO 16750-3:2012				
Electrical Performance Testing	ISO 16750-2:2012				
EMC Testing	ISO 7637-2:2011, ISO 7637-3:2016, ISO 10605:2023, ISO 13766-1:2018				

Joysticks

The Joystick series features multiple base and handle options, allowing flexible configurations to meet diverse application requirements. It is designed for scissor lifts and boom lifts.

Applicable Equipment



More



Endless Combinations

Highly customizable with a variety of bases and handle to fit various machines and operations.



Rugged

Constructed with high-quality materials and rigorously tested to ensure stable operation in high-temperature, high-humidity, and high-vibration environments.



High Performance

The non-contact Hall sensor provides enhanced accuracy, while the patented design effectively prevents jamming.



Ergonomic

Adjustable angles and an ergonomic design enhance user comfort.

Product Model	J10	J11
Product Image		
Rated Voltage	5 V	5 V
Rated Current	0.02 A @ 5 V	0.02 A @ 5 V
Output Voltage Range	0.5–4.5 V (Customizable)	0.5–4.5 V (Customizable)
Dimensions (mm)	197×92×92	206.6×56×82
Installation Method	Recessed / Top Mounting	Recessed Mounting
Mounting Hole Size (mm)	75×75	69×37 (Size 1) / 66 (Size 2)
Enable Button	✓	✓
Directional Controls	2 Buttons (Left / Right)	2 Buttons (Left / Right)
Axis	Single-Axis / Dual-Axis	Single-Axis
Operating Angle	20°	20° / 30°
Operating Torque	0.6–3 N·m	0.6–1.5 N·m
Actuation Force	6 N	5 N
Max Stroke Force	47 N	15 N
Ultimate Load Capacity	50 kg	60 kg
Micro Button Life	1 Million Cycles	1 Million Cycles
Enable Button Life	1 Million Cycles	1 Million Cycles
Mechanical Life	10 Million Cycles	10 Million Cycles
Protection Rating	IP65 (After Assembly)	IP65 (After Assembly)
Operating Temperature	–40 °C - +85 °C	–40 °C - +85 °C
Storage Temperature	–40 °C - +85 °C	–40 °C - +85 °C

Batteries

Covering both high-voltage and low-voltage platforms, designed for diverse industrial applications. Built for efficiency, safety, and reliable performance in demanding environments.

Applicable
Equipment



Universal Products

Product
Certifications



High Energy Density

Advanced LFP technology ensures high energy density, long cycle life, and safety.



Flexible Platform Coverage

Supports both high-voltage and low-voltage platforms for multiple equipment types.



Fast Charging Efficiency

Compatible with fast and slow charging, reducing downtime for equipment.



Intelligent Battery Management

Built-in BMS with OTA updates and 4G connectivity for real-time monitoring and control.

Product Model	420kWh	400kWh	365kWh	352kWh	282kWh
Product Image					
Battery Type	LFP	LFP	LFP	LFP	LFP
Cell Configuration (S/P)	2P192S	2P180S	2P182S	2P204S	2P192S
Nominal Voltage	618V	580 V	582 V	657 V	614 V
Nominal Capacity	680 Ah	648 Ah	628 Ah	536 Ah	460 Ah
Electric Energy	420 kWh	376 kWh	366 kWh	352 kWh	283 kWh
Stack Layers	4	4	4	4	4
Thermal Management	Liquid Cooling + Liquid Heating	Liquid Cooling + Liquid Heating / Heating Film	Liquid Cooling + Liquid Heating	Liquid Cooling + Liquid Heating	Liquid Cooling + Liquid Heating / Heating Film
Dimensions (mm)	1400 × 1220 × 265	1400 × 1150 × 265	1400 × 1220 × 265	1400 × 1150 × 265	1400 × 1150 × 265
Charging Temperature	0 °C - 60 °C	0 °C - 60 °C	0 °C - 60 °C	0 °C - 60 °C	0 °C - 60 °C
Discharging Temperature	-30 °C - 60 °C	-30 °C - 60 °C	-30 °C - 60 °C	-30 °C - 60 °C	-30 °C - 60 °C
PDU	HV Battery Enclosure (Dual Output)	HV Battery Enclosure (Dual Output)	HV Battery Enclosure (Dual Output)	HV Battery Enclosure (Dual Output)	HV Battery Enclosure (Dual Output)
Max. Continuous Charging Current	Single Output: 300 A, Dual Output: 600 A	Single Output: 300 A, Dual Output: 600 A	Single Output: 300 A, Dual Output: 600 A	Single Output: 300 A, Dual Output: 450 A	Single Output: 300 A, Dual Output: 450 A
Max. Continuous Discharging Current	600 A	600 A	600 A	450 A	450 A
Peak Discharge Current	700 A	700 A	700 A	700 A	700 A
Application Fields	Construction Machinery, Marine Vessels, Energy Storage, Agricultural Equipment, Heavy-Duty Trucks, Etc.				

Product Model	173C-105kWh	230C-282kWh	230C-423kWh	304C-350kWh
Product Image				
Battery Type	LFP	LFP	LFP	LFP
Nominal Voltage	609 V	614 V	614 V	576 V
Nominal Capacity	173 Ah	460 Ah	690 Ah	608 Ah
Electric Energy	105 kWh	283 kWh	424 kWh	350 kWh
Thermal Management	Heating Film + Liquid Cooling	Heating Film + Liquid Cooling	Heating Film + Liquid Cooling	Heating Film + Liquid Cooling
Charging Temperature	0 °C - 60 °C	0 °C - 60 °C	0 °C - 60 °C	0 °C - 60 °C
Discharging Temperature	-30 °C - 60 °C	-30 °C - 60 °C	-30 °C - 60 °C	-30 °C - 60 °C
Charging Rate	1 C	1 C	1 C	1 C
Discharging Rate	1 C	1 C	1 C	1 C
Weight	709±20.7 kg	1877±48 kg	2724.1±72 kg	2233±60 kg
Cycle Life	≥ 2800	≥ 2800	≥ 2800	≥ 2800
IP Rating	IP67	IP67	IP67	IP67
Dimensions (mm)	1060 × 630 × 240	1060 × 630 × 240	1060 × 630 × 240	1060 × 630 × 240
Application Fields	Wheel loaders, Excavators, Mining trucks, Tractors, Heavy trucks			

Product Model	125X-29kWh	173X-4.45kWh	173X-13.3kWh	230X-17.7kWh	304X-23.3kWh
Product Image					
Battery Type	LFP	LFP	LFP	LFP	LFP
Nominal Voltage	77 V	26 V	77 V	77 V	77 V
Nominal Capacity	375 Ah	173 Ah	173 Ah	230 Ah	304 Ah
Electric Energy	29 kWh	4 kWh	13 kWh	18 kWh	23 kWh
Thermal Management	Heating Film	Heating Film	Heating Film	Heating Film	Heating Film
Charging Temperature	0 °C - 60°C	0 °C - 60°C	0 °C - 60°C	0 °C - 60°C	0 °C - 60°C
Discharging Temperature	-30 °C - 60°C	-30 °C - 60°C	-30 °C - 60°C	-30 °C - 60°C	-30 °C - 60°C
Charging Rate	0.5 C	0.5 C	0.5 C	0.5 C	0.5 C
Discharging Rate	1 C	1 C	1 C	1 C	1 C
Weight	265 kg	50±3 kg	140±3 kg	178±3 kg	235 kg
Cycle Life	≥ 2800	≥ 2800	≥ 2800	≥ 2800	≥ 2800
IP Rating	IP67	IP67	IP67	IP67	IP67
Dimension (mm)	975 × 490 × 600	550 × 209 × 440	624 × 494 × 412	851 × 494 × 613	972 × 490 × 600
Application Fields	Suitable for agricultural, construction, and a wide range of other electric vehicle and mobile equipment applications.				

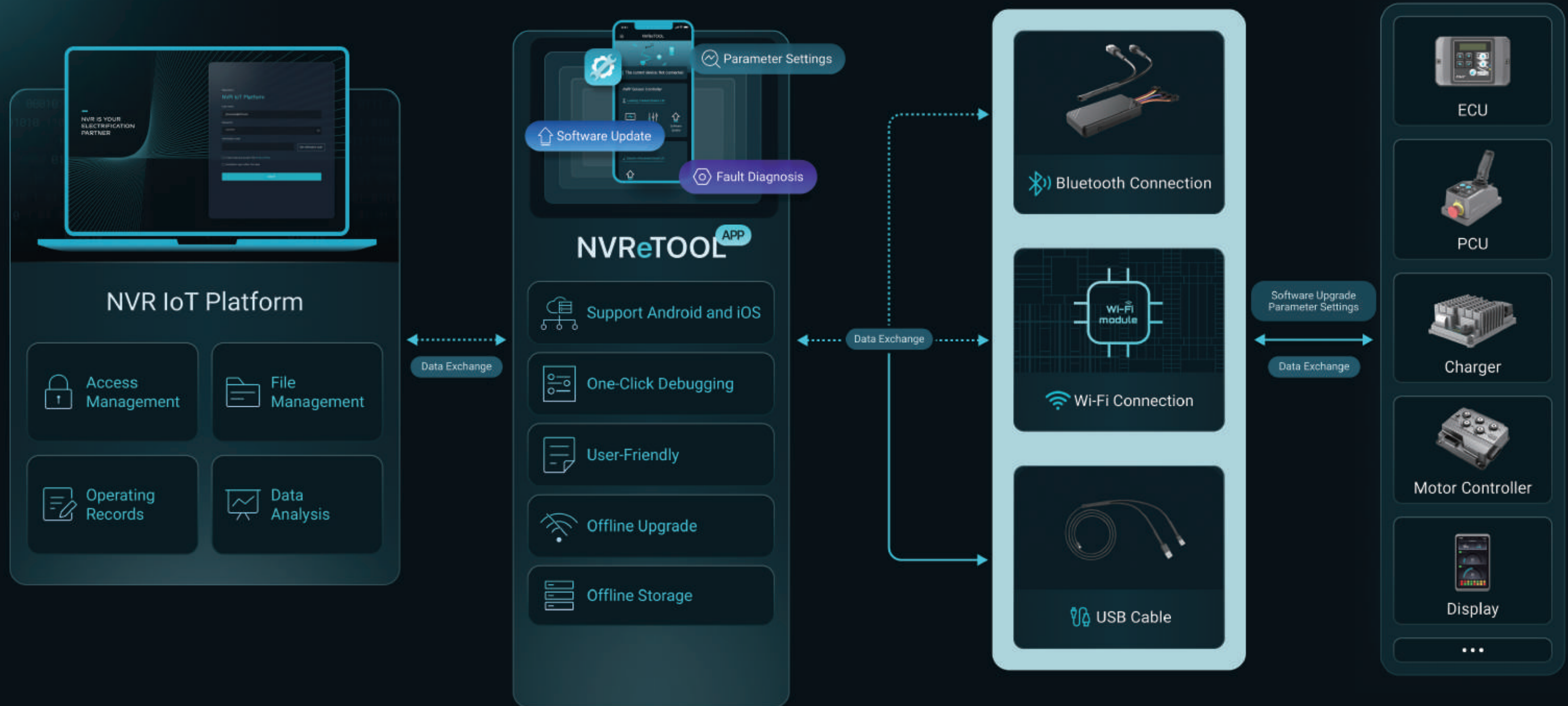
Product Model	150X-13.5kWh	230X-13.2kWh	230X-20.6kWh	230X-35.32kWh	230X-70.65kWh
Product Image					
Battery Type	LFP	LFP	LFP	LFP	LFP
Nominal Voltage	90 V	58 V	90 V	77 V	154 V
Nominal Capacity	150 Ah	230 Ah	230 Ah	460 Ah	460 Ah
Electric Energy	14 kWh	13 kWh	21 kWh	35 kWh	71 kWh
Thermal Management	Heating Film	Heating Film	Heating Film	Heating Film	Heating Film
Charging Temperature	0 °C - 60°C	0 °C - 60°C	0 °C - 60 °C	0 °C - 60 °C	0 °C - 60 °C
Discharging Temperature	-30 °C - 60 °C	-30 °C - 60 °C	-30 °C - 60 °C	-30 °C - 60 °C	-30 °C - 60 °C
Charging Rate	0.5 C	0.5 C	0.5 C	0.5 C	0.5 C
Discharging Rate	1 C	1 C	1 C	1 C	1 C
Weight	130 ± 3 kg	126 ± 10 kg	170 ± 4 kg	320 ± 10 kg	550 ± 10 kg
Cycle Life	≥ 2800	≥ 2800	≥ 2800	≥ 2800	≥ 2800
IP Rating	IP67	IP67	IP67	IP67	IP67
Dimensions (mm)	1146 × 496 × 339	720 × 442 × 345	1146 × 496 × 339	900 × 700 × 700	1000 × 700 × 700
Application Fields	Suitable for agricultural, construction, and a wide range of other electric vehicle and mobile equipment applications.				



NVR^eTOOL

NVR Self-Developed App-Based Diagnostic Tool

NVR^eTOOL is an integrated electronic control device diagnostic system that combines a wireless diagnostic box, a mobile app, and a device management platform. It enables easy program updates, parameter optimization, and data encryption, while securely uploading data to the platform, achieving lifecycle data management.



Unified IoT platform for fleet management with real-time tracking, usage monitoring, maintenance tracking, and API integration.



APP



PC



Alert: GL2025 Fence Exceeded. Please deal with it in a timely manner.

46%

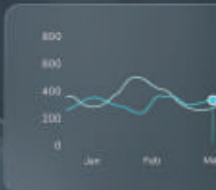
Data 01

74%

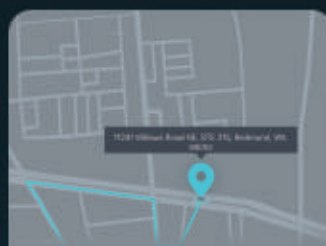
Data 02

14%

Data 03



A Management Platform Designed for Rental Management



Real-Time Location Tracking

Track your assets in real time to always know their exact location

Utilization

Monitor equipment usage and work hours to improve operational efficiency



Maintenance Tracking

Keep your fleet in peak shape with easy maintenance tracking



Battery Monitoring

Monitor battery health to ensure reliable operation



Geofencing Security

Protect your assets with geofencing and alerts for boundary breaches



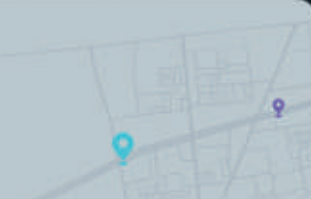
Remote Lock

Remotely lock equipment to prevent unauthorized use



Movement History

Review route histories to optimize fleet efficiency



Alert Notifications

Get instant alerts on issues to quickly address problems



Flexible Customization

Develop solutions precisely tailored to your needs, offering unparalleled data insights to keep every detail of your equipment under control

01

02

Advanced Data Insights

Collect detailed information to gain complete visibility into your equipment's performance and operations

OEM
Tailored Excellence

API Integration

Seamlessly integrate with your existing systems through robust API support

03

04

Enhanced Branding

Strengthen your brand and customer relationships with a solution designed to elevate service quality and collaboration

Tailored Solution

Experience a unified platform that seamlessly integrates equipment management and business operations, eliminating the need for multiple systems

01

02

Comprehensive Business Management

Effortlessly manage contracts, customers, and billing with strict access controls, all designed to enhance your efficiency

Rental
Beyond Telematics

Business Dashboard

Gain a clear overview of your operations at a glance, and make informed decisions with confidence

03

04

Paperless Workflow

Streamline your operations with a digital approval process, reducing your reliance on paper

Global Presence

Distributed globally, creating a world-class supply chain and service network

