

VEICHI

RB300 Series Integrated Servo Drive



VEICHI

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Official Website

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About Us



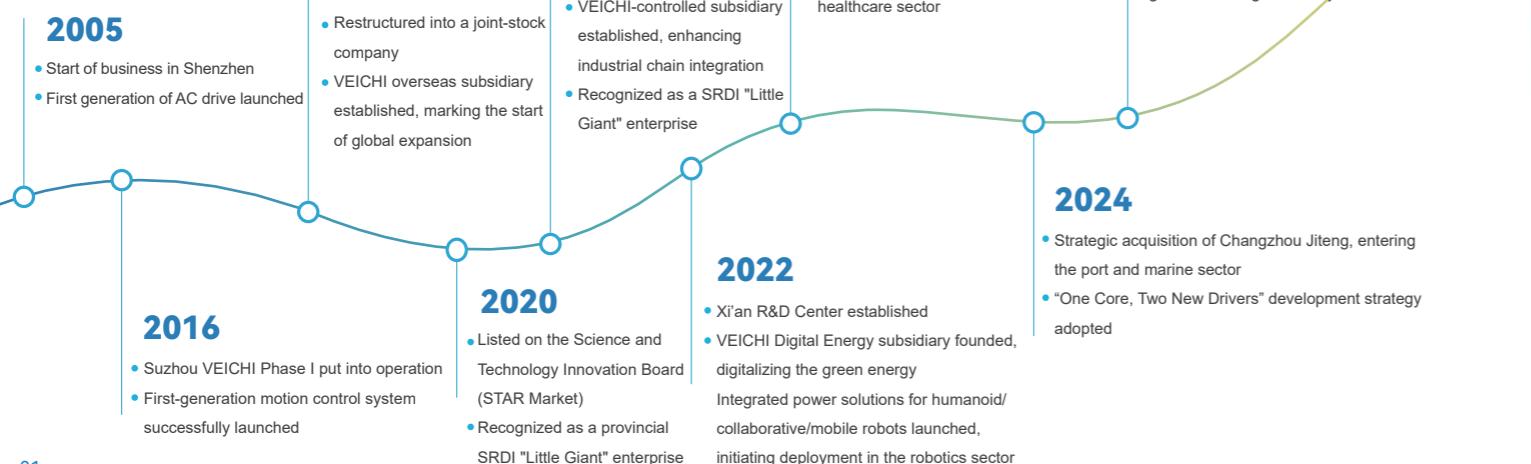
Veichi Electric (Stock Code: 688698) specializes in electrical transmission and industrial control, operating as an integrated high-tech enterprise in R&D, production, and sales of industrial automation products. With a vision to lead in smart industry and green energy solutions, the company leverages its R&D and manufacturing hubs in Suzhou, additional R&D centers in Shenzhen and Xi'an, and wholly-owned subsidiaries overseas, consistently serving customers worldwide with competitive and reliable solutions.

Under the "One Core, Two New Drivers" strategy, Veichi focuses on industrial automation, offering AC drives, servo systems, and control systems widely applied across heavy and light industries, as well as high-end equipment sectors, supporting the digital and intelligent transformation of manufacturing with its tailored solutions. Simultaneously, in two emerging fields, it provides one-stop solutions for humanoid, collaborative, and mobile robots in embodied intelligence, while in green energy, it delves into segments like photovoltaic, energy storage, and hydrogen energy, to "connect every device with green power," fostering a synergistic growth between core operations and new ventures.

2005
 • Start of business in Shenzhen
 • First generation of AC drive launched

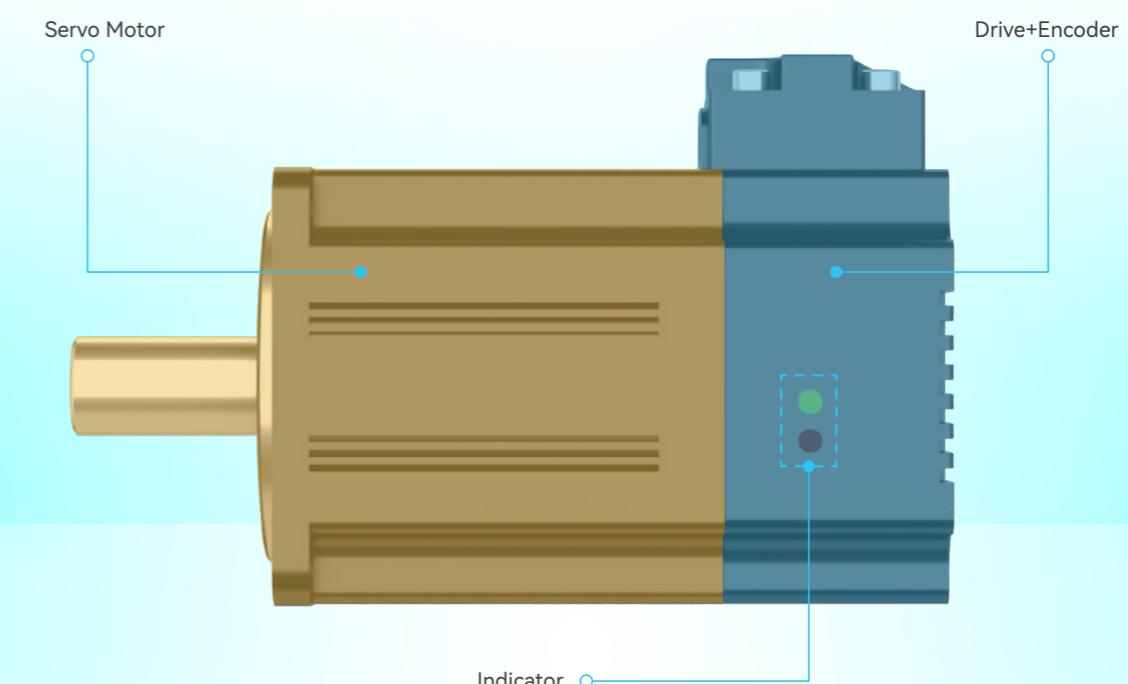
2019
 • Restructured into a joint-stock company
 • VEICHI overseas subsidiary established, marking the start of global expansion

2016
 • Suzhou VEICHI Phase I put into operation
 • First-generation motion control system successfully launched

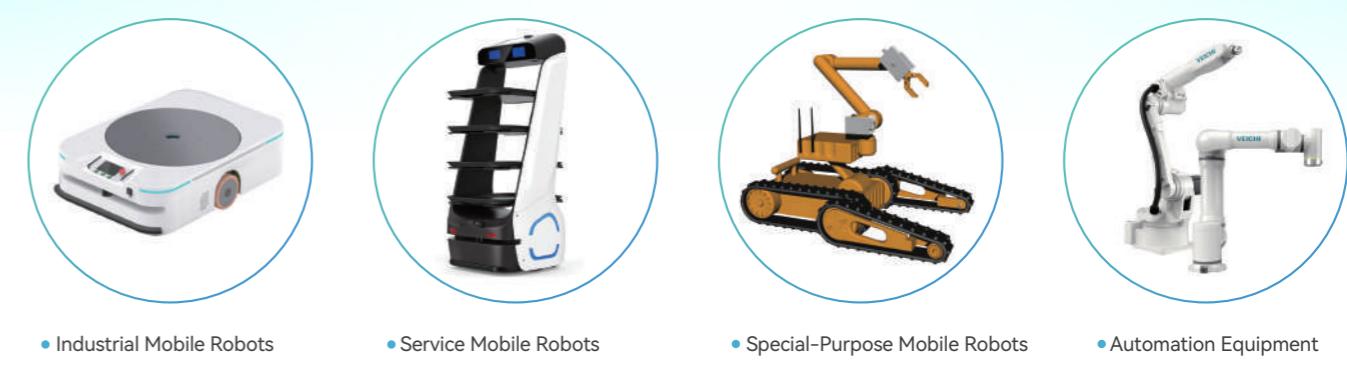


RB300 Series Integrated Servo Drive

- Integrating a low-voltage synchronous motor, encoder, and servo drive in one compact module, this system is built on a globally advanced algorithm platform, delivering **exceptional performance, high precision, and superior speed capabilities**.
- Designed to be **space-saving and highly functional**, it eliminates the need for external cabling, thereby **reducing material costs, minimizing wiring labor, lowering system failure rates, and significantly saving installation space**. Ideal for applications where space is at a premium.



Application Scenarios



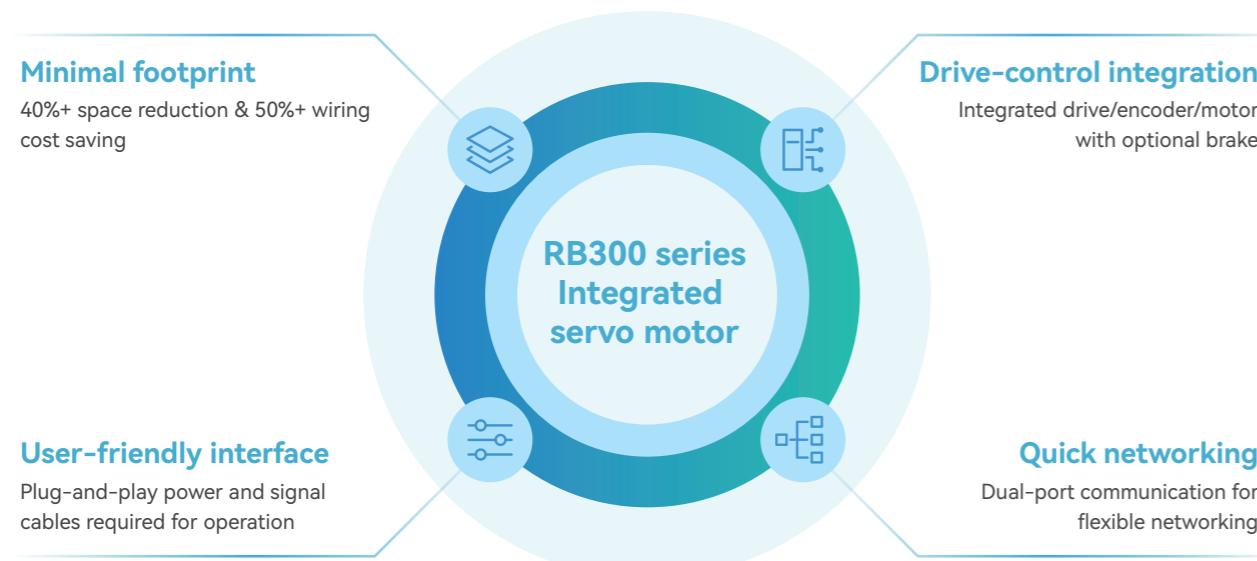
• Industrial Mobile Robots

• Service Mobile Robots

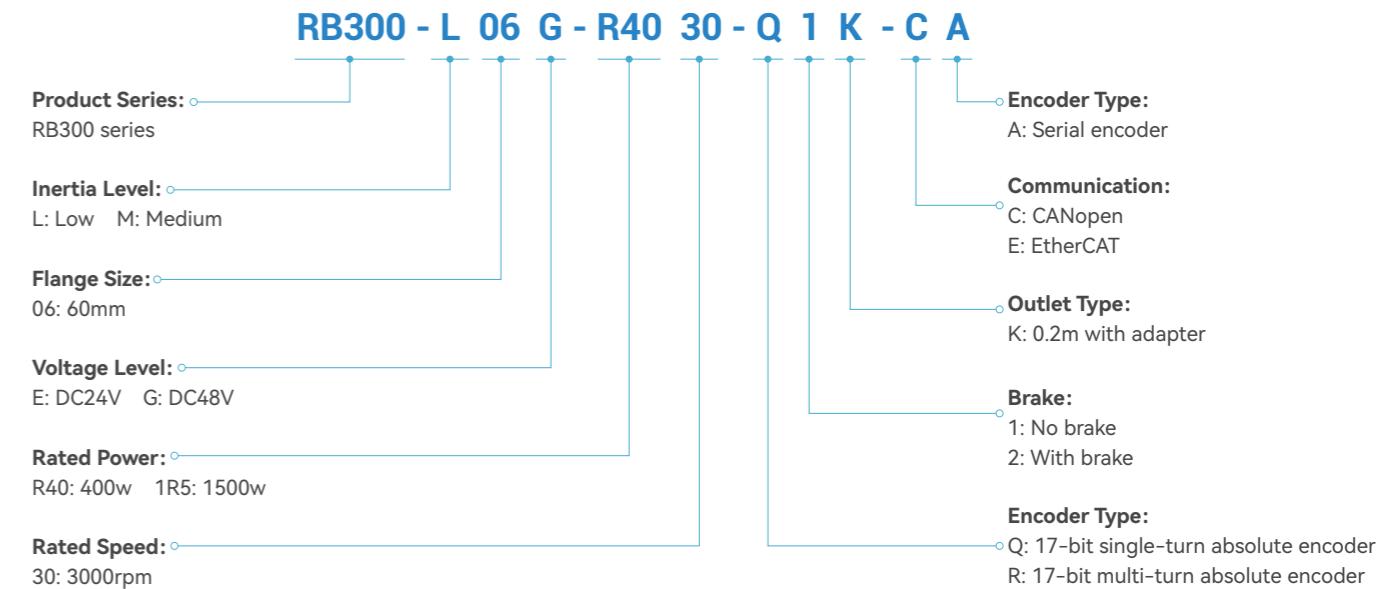
• Special-Purpose Mobile Robots

• Automation Equipment

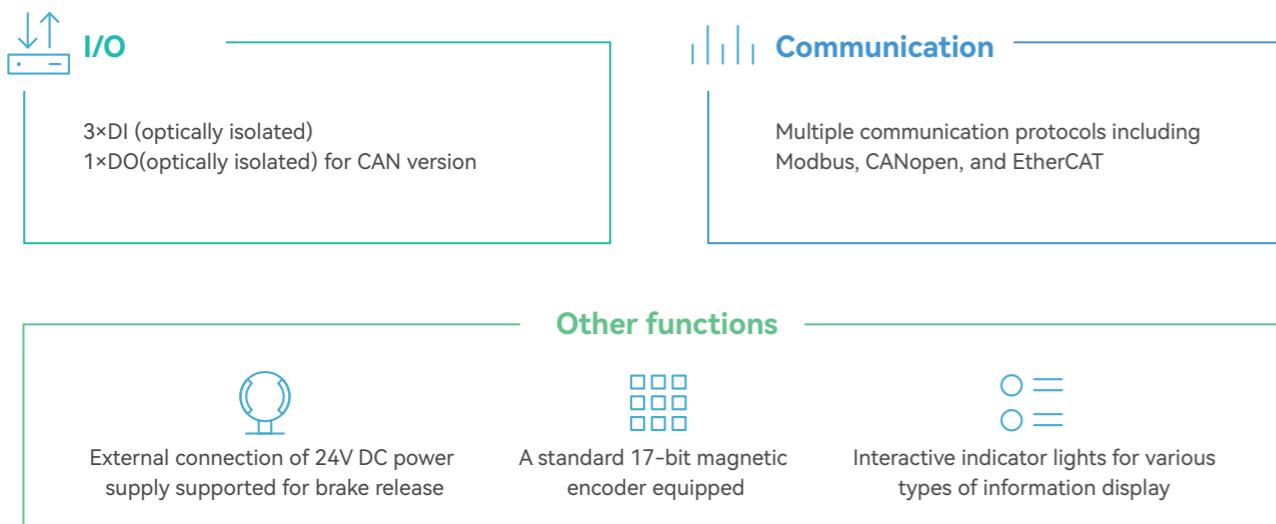
Product Features



Naming Rules



Product Functions

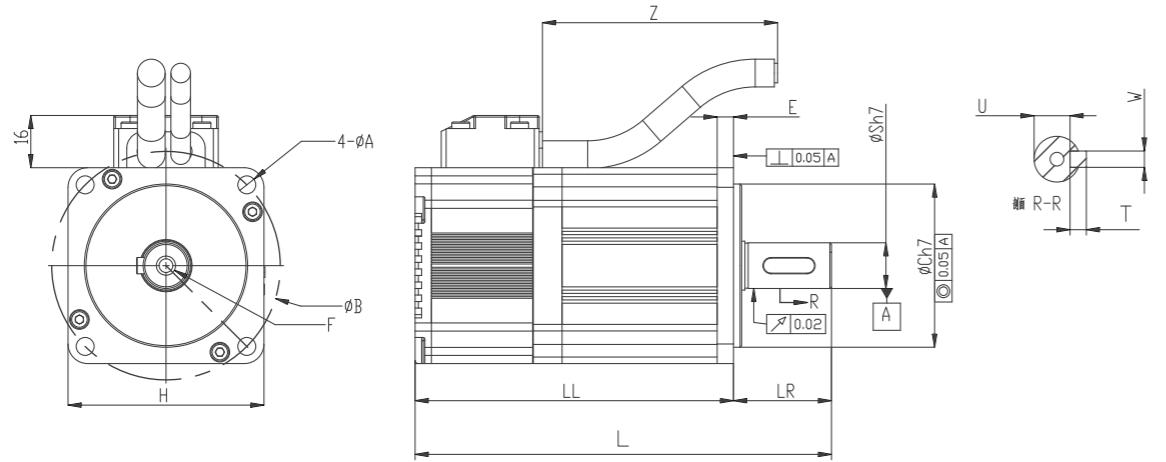


Technical Specifications

Item	Description
Rated voltage	DC48V
Encoder	17bit absolute encoder
Communication	RS485, CANopen, EtherCAT
DI	2
DO	1
Cooling	Air cooling
Protection level	IP54 (Customization available)
Standards	IEC61800-2/-3/-5, IEC61000-2/-3/-4
Work mode	Continuous
Vibration resistance	≤49m/s ² (5G) during rotating, ≤24.5m/s ² (2.5G) during stop

Item	Description
Insulation resistance	>10MΩ under 48V DC
Ambient temperature	-40°C~40°C
Ambient humidity	20%~80%RH (no condensation)
Excitation method	Permanent magnet
Installation method	Flange
Insulation class	F
Insulation voltage	1500V AC for 1 min (200V models)
Storage temperature	-15°C~60°C
Storage humidity	20%~80%RH (no condensation)
Protection level	IP54 (except for the output shaft end)

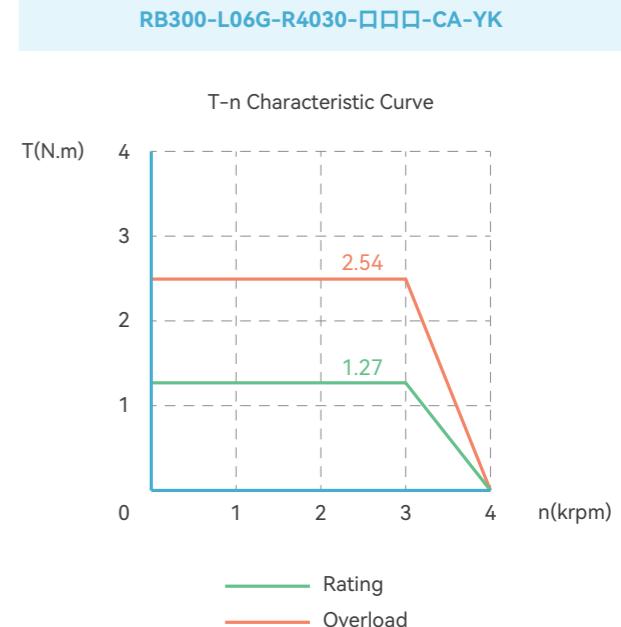
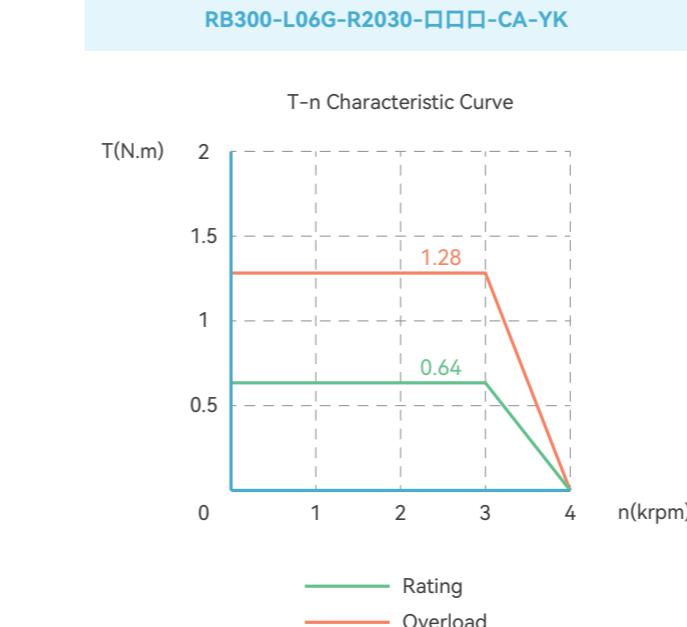
Installation Dimensions



Product Model	A	B	C	S	E	F	H	L	LL	LR	T	W	U	Z
RB300-L06G-R2030-□1K-△A-YK								102.5	72.5					
RB300-L06G-R2030-□2K-△A-YK	5.5	70	50	14	5	M5-6H ▽10	60	135	105	30	5	5	11	
RB300-L06G-R4030-□1K-△A-YK								127.5	97.5					
RB300-L06G-R4030-□2K-△A-YK								160	130					
RB300-L08G-R7530-□1K-△A-YK	6.5	90	70	19	8	M6-6H ▽12	80	142	107	35	6	6	15.5	200
RB300-L08G-R7530-□2K-△A-YK								176	141					
RB300-M13G-1R530-Q1K-CA	9	145	110	22	12	M5▽12	131	180	125	55	7	8	17	
RB300-M13G-1R530-Q2K-CA								206.2	151.2					

Note: □ represents the encoder type, which can be Q or R; △ represents the bus type, which can be C (CANopen) or E (EtherCAT).

Torque Characteristic Curve

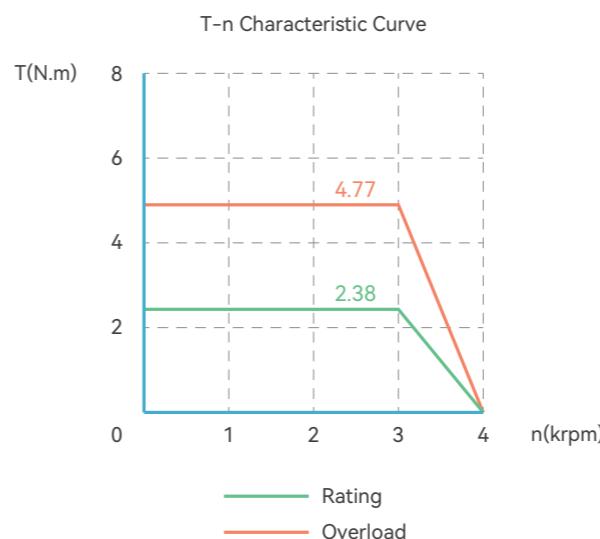


Specifications

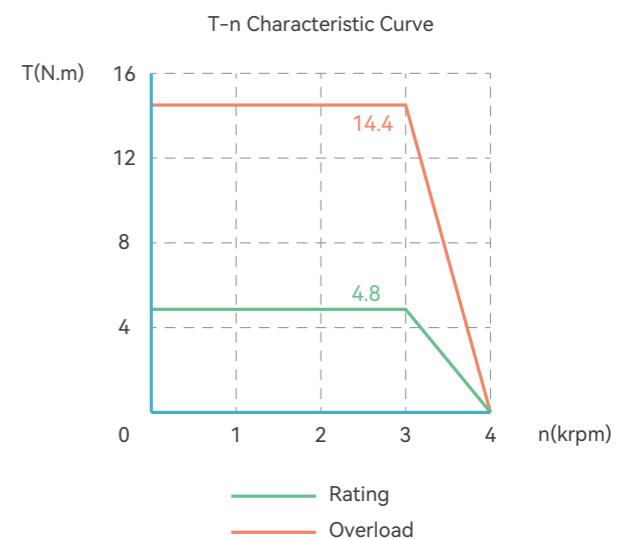
Product Model	Flange	Rated Voltage	Rated Power	Rated Current	Peak Current	Rated Torque	Peak Torque	Rated Speed	Peak Speed	Rotor Inertia
RB300-L06G-R2030-□1K-△A-YK	60	48	200	5.98	11.96	0.637	1.247	3000	4000	0.091
RB300-L06G-R2030-□2K-△A-YK	60	48	200	5.98	11.96	0.637	1.247	3000	4000	0.1027
RB300-L06G-R4030-□1K-△A-YK	60	48	400	12	24	1.27	2.54	3000	4000	0.242
RB300-L06G-R4030-□2K-△A-YK	60	48	400	12	24	1.27	2.54	3000	4000	0.2537
RB300-L08G-R7530-□1K-△A-YK	80	48	750	22.5	45	2.387	4.774	3000	4000	0.641
RB300-L08G-R7530-□2K-△A-YK	80	48	750	22.5	45	2.387	4.774	3000	4000	0.734
RB300-M13G-1R530-Q1K-CA	130	48	1500	31	93	4.78	14.33	3000	3000	10.51
RB300-M13G-1R530-Q2K-CA	130	48	1500	31	93	4.78	14.33	3000	3000	12.65

Note: □ represents the encoder type, which can be Q or R; △ represents the bus type, which can be C (CANopen) or E (EtherCAT).

RB300-L08G-R7530-□□□-CA-YK

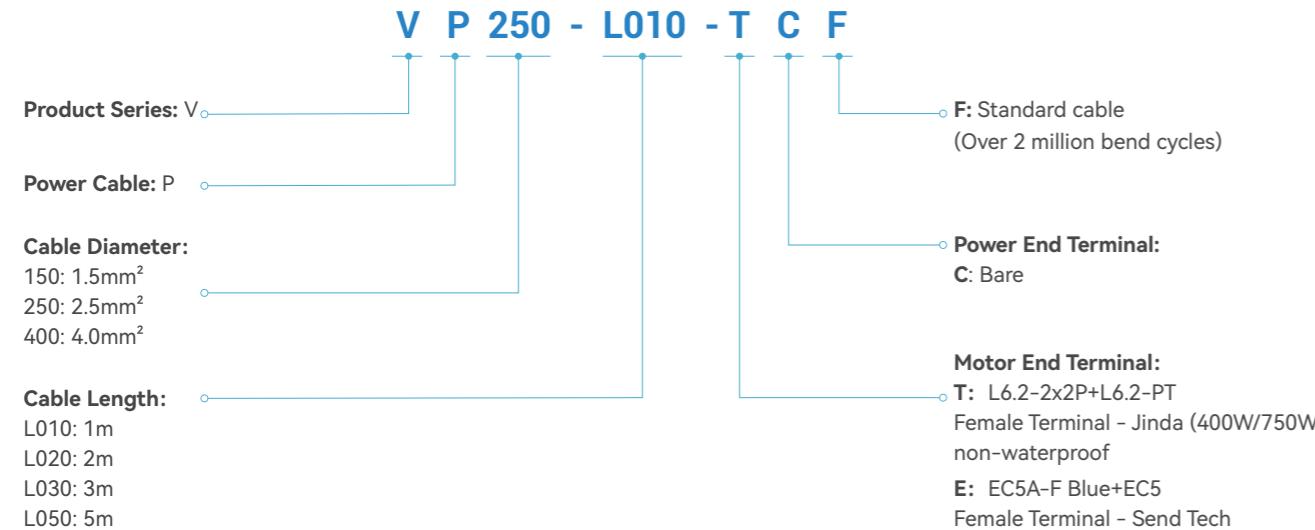


RB300-M13G-1R530-□□□-CA



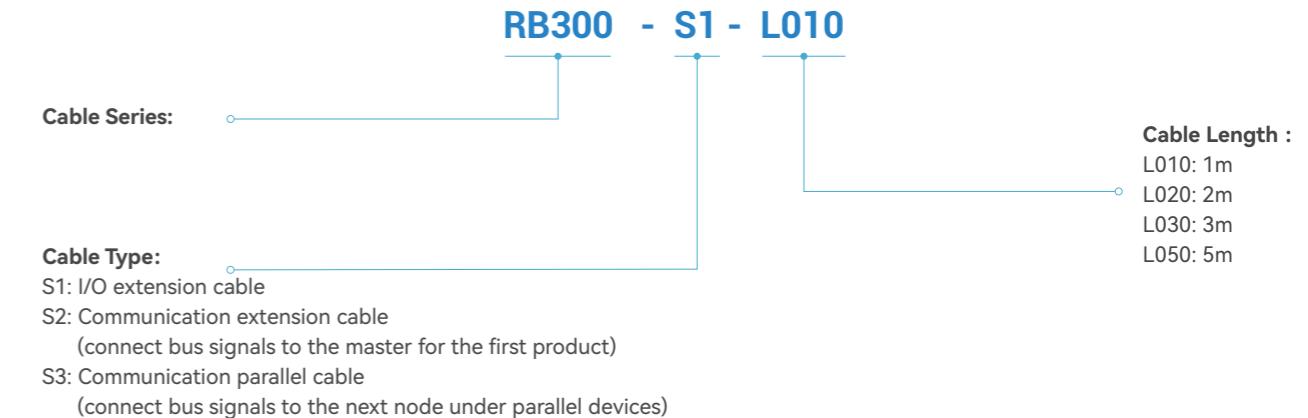
Cable Naming Rules

Power Cable (CA&EA Models)



Note: The extension cables are supplied with bare wire ends for user-side connections.

Signal Cable (CA Models)



Note: The extension cables are supplied with bare wire ends for user-side connections.

Type	Power Cable	
	Model	Diagram
≤750W	VP250-L***-TCF	
≥1000W	VP400-L***-ECF	

Type	Signal Cable (CA Models)	
	Model	Diagram
I/O extension cable	RB300-S1-L***	
Communication extension cable	RB300-S2-L***	
Communication adapter cable (optional for parallel configuration)	RB300-S3-L***	

Research and Production

R&D and Technology Platform

- Consolidating a dynamic force of top-tier professionals and technical experts in domestic industrial control, our R&D team represents 34.29% of our workforce, with 76.42% of our technical staff boasting bachelor's degrees or higher.
- Guided by philosophy of "Innovate with technology and strive for excellence," VEICHI is deeply customer-centric by providing stable and reliable products and technologies designed to the evolving needs of our clients.
- Investing 10% of our revenue into R&D, VEICHI has crafted advanced labs for EMC, safety, reliability, and performance testing to ensure product quality.
- In-depth cooperation with many famous universities and research institutions in China has been established and "Jiangsu Postdoctoral Innovation Practice Base" and "Jiangsu Postgraduate Workstation" are set up successively.

Intelligent Automation

- Digitally driven from inception to production, VEICHI boasts an annual capacity of 914,600 units with streamlined efficiency.
- 5 imported SMT placement lines, 5 automated coating lines, 4 DIP test lines, a robotic arm-equipped automated line, and 12 production lines are equipped with the latest intelligent manufacturing tools.
- All of the product checks are carried out automatically by the management mode of 3 (tri-inspection system)+ 1(proportional inspection) during the whole process for standard performance.
- Three major production management system WMS, MES and ERP together ensure that the unique code of each product is traceable in the system to manage product quality.



Service and Support

VEICHI Electric has established an integrated global service network through its innovative "Region + Industry" marketing strategy, which synergizes cross-sector resources and distribution channels to deliver comprehensive solutions. With permanent business and technical support teams strategically located across 22 major Chinese cities and overseas operations including Indian subsidiaries, the company is supported by an extensive network of 334 domestic and international distributors that ensure seamless market coverage. By consistently delivering superior product quality backed by professional technical support and service excellence, VEICHI Electric continues to enhance its global brand reputation while driving sustainable international growth through reliable, customer-centric solutions.

