

VEICHI

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Official Website

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Stock code:688698



production, and distribution of advanced industrial automation products. It serves a 222 authorized patents, including 54 invention patents. global clientele, delivering competitive, secure, and reliable solutions across multiple with a wholly-owned subsidiary in India.

systems, is widely applied in various industries, providing tailored solutions that drive the Development Demonstration' digital and intelligent transformation of modern manufacturing. Additionally, we are offering innovative products like coreless motors, frameless motors, photovoltaic storage inverters, and surgical power systems.

Along the way, VEICHI has developed a robust suite of proprietary technologies with relentless efforts on motors such as vector control, HF injection control, parameter

Since its inception, VEICHI Electric (Stock Code: 688698) has been a pioneer in auto-tuning, motor protection, start-up fly track, high-speed weak magnet control, scalar V/F electrical transmission and industrial control, specializing in the research, development, control, high-density water-cooled layout, and IGBT protections. As of September 30, 2024, we hold

And in consequence, it has reaped prestigious accolades, including the third batch of "Specialregions with R&D centers and production facilities in Suzhou, Shenzhen, and Xi'an, along ized, Elaborative, Characteristic, and Emerging 'Little Giant' Enterprise", "High-Tech Enterprise", "High and New Technology Enterprise", "Jiangsu Provincial Engineering Technology Research The comprehensive product portfolio, including AC drives, servo systems, and control Center", "Jiangsu Provincial Enterprise Technology Center", and "Jiangsu Province Industrial Internet

Looking ahead, VEICHI remains unwavering in its commitment to a market-driven and expanding into emerging fields such as robotics, new energy, and medical technologies, cutting-edge technological innovation. By prioritizing breakthroughs in core technologies, it aims to expand into high-performance, high-quality, and high-reliability applications and drives transformative progress that shapes the future of the electrical transmission and industrial control

AC600 Series High-performance General AC Drive

In line with the global strategy, the AC600 series meets the international mainstream certifications like CE/UL and employs a full topology drive architecture for asynchronous motors (IM), synchronous motors (SM) and synchronous reluctance motors with integrated adaptive vector control algorithms.

Advanced hardware features on-line health monitoring (PHM) system for core modules (e.g. IGBT, capacitors) to assess life and working condition in real time, and SMT- and AOI-based auto production process ensures MTBF index and batch consistency. And the built-in modular program library in the software supports parameter auto-tuning and industry-specific process packages.

From topology optimization, full-life validation to global compliance certification (e.g. SIL3), AC600 series iterates drive technology with systematic engineering innovations, which comprehensively covers the core requirements of the drive and execution layers of industrial automation control systems.

CE\UL and global

standards compliance



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AC600 Series High-performance General AC Drive

Synchronous, asynchronous and reluctance motor driving compilation Internal and external 24V control power supply application Removable cool keypads Easy operation Book-style narrow frame design with high power density



Product Specifications

ŀ	tem	Specification
	Motor type	Three-phase asynchronous motors, permanent magnet synchronous motors, and synchronous reluctance motors
	Control mode	V/F control, SVC, FVC, and V-F split control
	Modulation	SVPWM
	Speed control range	SVC: Rated load 1:200 FVC: Rated load 1:1000
	Speed stabilizing accuracy	SVC: ±0.5%(Three-phase AM), ±0.1%(PMSM) FVC: ±0.02%
Main Control Performance	Starting torque	SVC: 150% of rated torque at 0.25Hz FVC: 200% of rated torque at 0Hz
	Torque response	SVC: <10ms FVC: <5ms
	Torque accuracy	SVC: ±5% FVC: ±2.5%
	Frequency accuracy	Digit setting: Max. frequency×(±0.01%); Analog setting: Max. frequency×(±0.2 %)
	Frequency resolution	Digit setting: 0.01Hz; Analog setting: Max. frequency×(±0.05%)
	Input Current Harmonics	Maximum THDI<48% (under 100% load) in accordance with IEC61000-3-12
	Torque control	Torque setting calculation and speed limit in torque mode
	DC brake	Starting frequency: 0.00Hz~50.00Hz; Braking time: 0.0s~60.0s; Braking current: 0.0%~150.0% of rated current
	Torque boost	Auto torque boost or manual torque boost between 0.1%~30.0%
	V/F regulation curve	4 patterns: Linear curve, self-defined curve, 1.1~1.9 power curve, and square curve
	ACC/DEC curve	2 patterns: Linear and S-curve 4 sets of time: 0.01s by default for max. duration 650.00s 0.1s or 1s available in setting, for max. duration 6500.0s or 65000s
Basic Function	Rated output voltage	Settable within 50%~100% with the power voltage compensation function when the rated motor voltage as 100% (the output cannot exceed the input voltage)
	Auto voltage regulation	Auto voltage stabilizing during the grid fluctuation
	Auto ECO mode	Auto output voltage optimization according to the load in V/F control mode
	Auto current limit	Auto current limit during operation against frequent over-current tripping
	Power cut protection	Uninterrupted operation through bus voltage control in case of instantaneous power loss
	Standard functions	PID control, fly track and restart after power down, jump frequency, upper/lower frequency limit control, programmed operation, multi-frequency, RS485, analog output, frequency pulse output, parameter access level setting, common parameter setting, monitoring comparator output, counting and timing, and wobble frequency
	Frequency source	Keypad, analog voltage/current terminal Al1 and Al2, communication, multi-function terminals, and A/B frequency source combination
	Feedback source	Al1 and Al2, communication, and PUL terminal

lt	em	
	Command source	Keypad, external ter
	Input command signal	Start, stop, forward deceleration time, fr
	Output signal	2×RO, 1×open collect or frequency pulse
ictions	External power input	DC24V±15%, 1200m
	Extension	CARD-A, CARD-B, C
	Fan speed regulation and error detection	Support
	Safety function	STO function, SIL 3
	DC reactor	Standard
		Over-voltage, low-v data protection, ove
	Display	Segment display or
	Parameter copy	Upload and downloa
	Status monitoring	All parameters of the urrent, input voltage target torque, outpu
	Fault and alarm	Over-voltage, low-v current limit, data pi
	Installation	< 1000M, no conder pressure 70kPa~ 10
	Operating temperature	-10°C~+40°C. IP20 models: Derate IP54 models: Derate
	Humidity	5%RH~95%RH, no c
	Vibration	5.9m/s²(0.6g) betwe
	Storage temperature	-30°C~+60°C, air tem
	Installation	Wall-mounting and
	Protection level	IP20 or IP54(specifie
	Pollution class	PD2
	Overvoltage class	OVC III
	Protection class	Class I
	Cooling	Forced air-cooling

Specification

rminals and communication

and reverse, jog, multi-frequency operation, free stop, reset, acceleration/ requency source selection, and external fault alarms.

ctor output, and 2×AO can be selected to 0V~10V, 0mA~20mA, 4mA~20mA,

nA max.(required by CE/UL)

CARD-C and STO simultaneously

voltage, current limit, over-current, overload, over-heat, over-voltage stall, erspeed, and I/O phase loss

LCD display

ad the drive information for fast parameter copy

ne monitoring group including output frequency, target frequency, output c e, output voltage, motor speed, PID feedback, PID target, module temperature, ut torque, etc.

voltage, over-current, short circuit, phase loss, over-heat, over-voltage stall, protection, current fault status, and fault history

ensation, icing, rain, snow, hail, etc., solar radiation below 700W/m², air 16kPa. Derate 1% to use for each 100m rise when above 1000m

= 1.5% to use for every 1°C increase between 40°C \sim 50°C; = 2.5% to use for every 1°C increase between 40°C \sim 50°C;

condensation

een 9Hz ~ 200Hz

mperature fluctuation < 1°C/min

floor mounting

ed accessories required)

Hardware Structure











IP20 by default

Electronic device and heat sink duct separated

- -Enclosed design on both sides to prevent dust and foreign matters
- -Wide tooth surface heat dissipation to reduce hysteresis loss
- -High air flow and forced air cooling to balance temperature
- -Overall improved environmental resistance



IP54 for option (for specific power range)

Control Terminal Configuration

Unit	Qty	Function
DI	6	Optocoupler isolated, compatible with bipolar input 1. Input impedance: 4.4kΩ 2. High-speed pulse train input supported on X6 terminal
High-speed digital pulse train input	1	X6 terminal supports 100kHz pulse train input max.
RO	2	 Contact capacity: AC250V/3A, DC30V/5A Not suitable for frequent ON/OFF switches
Open collector output	1	Optocoupler isolated, open collector output 1.Voltage range: DC 0V~30V 2.Current range: DC 0mA~50mA
AI	2	 AI1: DC 0V~10V/0mA~20mA AI2: DC -10V~10V/-20mA~20mA Voltage impedance: 100kΩ Current impedance: 500Ω
AO	2	 Range: 0V~10V or 0mA~20mA Voltage or current output selectable AO1 supports pulse output,0kHz~50kHz
RS485	1	RS485 communication terminal, with ModBus RTU protocol
STO	1	Optional for SIL3
24V power output	1	24V power supply to the external devices, 100mA max.
10V power output	1	10V power supply to the external devices, 50mA max.
24V power supply input	1	Power supply to the control board for the drive self-test function to identify the state of the external terminals and analogue conditions Rated input voltage: DC24V±15%, 1200mA max.

Standard with built-in DC reactors

The built-in DC reactor suppresses the inrush current and harmonic interference from the grid for longer service life and higher system stability.





Software Configuration



Strong motor compatibility

AC600 series products can drive ordinary three-phase asynchronous motors, variable frequency motors, AC servo motors, permanent magnet synchronous motors, synchronous reluctance motors, high-speed synchronous motors, spindle motors, torque motors, linear motors and so on.

Flexible connector configuration

- Quadratic and logical operations on parameters and status bits
- Calculation superimposed to the channel parameter settings of the drive for easier application
- Maximum 10 groups of function blocks for arithmetic



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Multi-motor configuration switching

4 groups of motor parameters are stored to drive different motors under different control modes.

Various macros

Built-in macros for a variety of processes, such as tension and power balancing, dual PG spindle positioning, $2\times$ independent PID regulation, and fire protection mode.

Black box

Black box detection and automatic fault information storage for fast problem location and handling

1	0 1-ACEGO Read/Write									
- H 565 + Add device	Rection group type	And control of	Paul Road at Desert Imperi	O O	to Grager	II Debut select	- Optom			
 Osollosoipe 	Common paternater	Lode	ñate	Carset value	Get.	Default	Detect	100	Address	
 Digital enalyzer. Teal, time ministration 	 Different parameter 	10,08	Back bee truined	1				TN	047800	
+ ASI monitoring	IN C HEREIGHU Groep	EIDOL	Refer	0		0+65536		RN.	0.7201	
一番用し	🕀 🖿 Z parametar group	E10.02	Function Status	10		0-2	8	RN	0+7402	
Open funcade Re Depent funcade Depent	El P promiter prop A parameter prop El A parameter prop El E promiter prop El E Portoneter prop	£10,04	Receive Titracut Dutation	10.00		0.00-10	20.00	RN.	CUTAD4	
		£10.05	ADC Data Castors Channel 1	0.0000		DidCCO-	390000	EN.	0x7A05	
		F10.07	ADC Data Castors Charged 2	0100011		0.000	840001	RN .	0x7A07	
		\$10.08	ADC Date Castore Charstel 3	0x0002		Dx8000	0+0002	TN	0x7408	
A Troublesheating	102 Encoder 1 Parame	\$10,08	ADC Data Castore Charstel 4	0+0003		Dx8000	8e0003	TRN .	0x7A09	
4- *, Debug guide	- El 3 Excoder 2 Parane	EXAL	40¢ Dets Castorii Chinnel S	0x0004		Dx0000	Ex0004	RN	0x7408	
 Available gode Postovi flow The property of 	EDECAULOP Parameter A 207 Etherat Departer EL Laternatin group EL Conversion parameter Y									
est Parent			tva status information			C/S/W				
			peration status		0.0	of production in	and in	Output 1	D/ada/di	Given Enterland Auf

Service Service

Abundant software functions

Rich and comprehensive contents on the upper computer, including secondary interfaces, oscilloscope, device addition, debugging guidance, etc.for quick master of the products.



On-line motor parameter correction function to ensure that the algorithm model works with different motors precisely.





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High Reliability

STO (Safe Torque Off)

The optional STO function can quickly cut off the power supply of the motor under abnormal conditions to prevent the equipment damage and personnel safety.



Wall-mounted or through-wall installation

Easy positioning, easy handling, and firm fixing.



Only supports for models with specific power.

Stricter standards

AC600 full series with reference to CE, EAC, TUV, UL and other international standards.

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Impressive upgrades

Fault protection: derating operation during overheat, overload, external fault, communication fault, extension disconnection, input phase loss, output phase loss, etc., without operation halts.

SVC/FVC switching: Auto switch from closed-loop to open-loop control in the event of an encoder failure against sudden unintended acceleration.

Cooling fan speed/direction regulation: Speed regulation available on the cooling fan for different applications.

Automated production and assembly

Automated production lines instead of man work in the aspects of testing, aging and packaging for overall quality









Extension Configuration

Superior extension

A variety of extension interfaces for customization. Three SPI extension available on the control board with automatic board and setting recognition function.

Communication bus

wodbus	MODBUS TCP
wodbus	MODBUS RTU
CANopen	CANopen
<u>₽₽₽₽₽</u> ° IBDSI	PROFIBUS-DP

Model Description



2: 220V 4:380V~480V 6: 660V

Rated Power

G-Constant torque load P: Variable torque load 015:15kW 1R5: 1.5kW



ppopi [®] Net	PROFINET
EtherNet/IP	EtherNet/IP
EtherCAT.	EtherCAT
	BACnet

Installation Size

IP20 Models

V1~V3 Cases(Plastic)



Corre	Model		Outer	Dimensio	on(mm)		Hole Position (mm)				N /	A monthum
Case		W	н	H1	D	D1	W1	H2	A	В	Net (Kg) A	Aperture
	AC600-T4-R75G/1R5P-*					205	105	308	16.5	7	5.6	
	AC600-T4-1R5G/2R2P-*			302.2	211.5							
V1	AC600-T4-2R2G/004P-*	138	320									4-M4
	AC600-T4-004G/5R5P-*											
	AC600-T4-5R5G/7R5P-*											
1/2	AC600-T4-7R5G/011P-*	155	2/2	000.0	211 5	205	115	224	20	7	5.8	4-M5
٧Z	AC600-T4-011G/015P-*	100	340	320.Z	211.5	205	115	330				
	AC600-T4-015G/018P-*							5 443.5		6.5	10.4	
V3	AC600-T4-018G/022P-*	190	455	435.2	236.5	230	155		17.5			4-M6
	AC600-T4-022G/030P-*											

V4~V5 Cases (Iron)



C	Model		Outer	Dimensio	on(mm)			Hole Posi				
Case		W	н	H1	D	D1	W1	H2	Α	В	Net (kg)	Aperture
14	AC600-T4-030G/037P-*	220	552.5	531.5	241.5	225	180	535	25	9	19.8	4-M6
V4	AC600-T4-037G/045P-*	230				235						
	AC600-T4-045G/055P-*		627.5	606.3	280.5	274.5	190	609.5	37.5	9	29.8	4-M8
V5	AC600-T4-055G/075P-*	265										
	AC600-T4-075G/090P-*											

Output Current

Voltage	220V	380V	660V		
Power(kW)	Rate	d Output Curren	rt (A)		
0.75	4	3			
1.5	7	4			
2.2	10	6			
4	16	10			
5.5	20	13			
7.5	30	17			
11	42	25			
15	55	32			
18.5	70	38			
22	80	45	28		
30	110	60	35		
37	130	75	45		
45	160	90	52		
55	200	110	63		
75	260	150	86		
90	320	180	98		
110	380	210	121		
132	420	250	150		

Voltage	220V	380V	660V		
Power(kW)	Rate	d Output Curren	ıt (A)		
160	550	310	175		
185	600	340	198		
200	660	380	218		
220	720	415	235		
250		470	270		
280		510	330		
315		600	345		
355		670	380		
400		750	430		
450		800	466		
500		860	540		
560		990	600		
630		1200	690		
710		1340	760		
800		1500	860		
900		1600	932		
1000		1720	1080		
1120		1980	1200		









V6~V11 Cases (Iron)





Case	Medel		Outer Dimen	sion(mm)	Ho	le Position (I	mm)		Amortuno	
Case	Model	w	н	H1	D	W1	H2	Net (kg)	Aperture 4-M8 4-M8 4-M16 4-M16	
1/4	AC600-T4-090G/110P-*	270	450	600	270	105	635	25	6 M9	
vo	AC600-T4-110G/132P-*	270	050	800	370	175		30	4-140	
\/7	AC600-T4-132G/160P-*	350	738	680	410	220	715	66.5	/-M8	
V7	AC600-T4-160G/185P-*	550		000			/15	00.5	4-110	
1/9	AC600-T4-200G/220P-*	240	940	950	494	200	010	07	6 1416	
Vð	AC600-T4-220G/250P-*	300		030	400	200	910	97	4-14110	
1/0	AC600-T4-250G/280P-*	270	1140	1050	EE0	200	1110	126.5	6 1416	
V 9	AC600-T4-280G/315P-*	370			550				4-14110	
	AC600-T4-315G/355P-*			1140		240	1213	167		
V10	AC600-T4-355G/400P-*	400	1250		568				4-M16	
	AC600-T4-400G/450P-*									
	AC600-T4-450G/500P-*									
V11	AC600-T4-500G/560P-*	460	1400	1293	545	300	1363	235	4-M16	
	AC600-T4-560G/630P-*									

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IP54 Models

V1~V3 Cases with Junction Box





C	Model		Outer Dimension(mm)						Hole Position (mm)				A
Case		w	H3	H4	H5	D	D2	W1	W2	H6	Α	В	Aperture
	AC600-T4-R75G/1R5P-*V*												
	AC600-T4-1R5G/2R2P-*V*	AC600-T4-1R5G/2R2P-*V*											
V1	AC600-T4-2R2G/004P-*V*	138	432	116.5	336.5	211.5	148.5	105	121	323	16.5	7	4-M4
	AC600-T4-004G/5R5P-*V*												
	AC600-T4-5R5G/7R5P-*V*												
1/2	AC600-T4-7R5G/011P-*V*	155	467	123.5	364.5	011 5	148.5	445	400	351	20	7	(ME
٧Z	AC600-T4-011G/015P-*V*	155				211.5		115	130				4-M5
	AC600-T4-015G/018P-*V*						174.7	155	172	443.5	17.5	6.5	
V3	AC600-T4-018G/022P-*V*	190	579	138.6	471.5	236.5							4-M6
	AC600-T4-022G/030P-*V*												





V4~V5 Cases with Junction Box





	Case	Model	Outer Dimension(mm)						Hole Position (mm)					Aportu
			w	H3	H4	H5	D	D2	W1	W2	H6	Α	В	Aper tur
	1/4	AC600-T4-030G/037P-*V*	230	698	145.5	568	241.5	180	180	200	552	25	9	4-M6
	V4	AC600-T4-037G/045P-*V*												
		AC600-T4-045G/055P-*V*		779	147.5	649	280.5	229	190	236	633	17.5	9.5	4-M8
	V5	AC600-T4-055G/075P-*V*	265											
		AC600-T4-075G/090P-*V*												

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Though-wall Installation Dimensions(mm)



£ £



Case	Model	Outer Dimension(mm)					Hole Position (mm)						Aporturo
Case		W5	H7	D	D3	С	W4	W6	H8	H9	H10	C1	Aperture
	AC600-T4-R75G/1R5P-*		356.4	211.5	102.5	10	159.4	139	38.2	260	316	10.2	4-M4
	AC600-T4-1R5G/2R2P-*												
V1	AC600-T4-2R2G/004P-*	185.4											
	AC600-T4-004G/5R5P-*												
	AC600-T4-5R5G/7R5P-*												
1/2	AC600-T4-7R5G/011P-*	202 /	202.4 382.4	211.5	103.5	10	176.4	156	51.2	260	342	10.2	4-M5
٧Z	AC600-T4-011G/015P-*	202.4											
	AC600-T4-015G/018P-*			237.5	107.5		105.7	193	469.4	260	449	10.2	4-M6
V3	AC600-T4-018G/022P-*	237.4	489.4			10							
	AC600-T4-022G/030P-*												

V4~V5 Cases





0	Model	Outer Dimension(mm)					Hole Position (mm)						
Case		W5	H7	D	D3	С	W4	W6	H8	H9	H10	C1	Aperture
1/4	AC600-T4-030G/037P-*	285.4	605.4	241.5	112	13	259.4	245	89.7	200	559	10.2	4-M5
V-4	AC600-T4-037G/045P-*												
	AC600-T4-045G/055P-*	326.4	690.4	280.5	117	13	300.4	283	107.2	225	644	10.2	4-M6
V5	AC600-T4-055G/075P-*												
	AC600-T4-075G/090P-*												







Accessory List

Wiring Diagram

	Name	Code	Model	Function					
Brake Components	Built-in brake unit	Product code ended with "B"	/	T/S2: 0.75kW~11kW models standard with while 15kW~55kW models optional for built-in brake units T4: 0.75kW~11kW models standard with while 30kW~110kW models optional for built-in brake units T6: 22kW~110kW models optional for built-in brake units					
	CANopen board	AC600CAN1		CANopen					
	Profinet board	AC600PN1		Profinet					
	Profibus-DP board	AC600DP1		Profibus-DP					
Communication	Modbus TCP board	AC600TCP1		Modbus TCP					
Extensions	EtherCAT board	AC600EC1		EtherCAT					
	EtherNet/IP board	AC600EIP1		EtherNet/IP					
	BACnet board	AC600BNT1	10/00 0	BACnet					
	GPRS board	IOT-BMC410-AC600	AC600 Series	4G GPRS wireless communication					
	Incremental encoder board	AC600PG1		Incremental encoder closed-loop control, 1:1 dividing frequency					
	Position board	AC600PG2		Receive pulse signals for position control, compatible to incremental encoder closed loop control but with infinite dividing frequency output					
Function	Sine-cosine encoder board	AC600PG3		Sine-cosine encoder for closed-loop control					
Extensions	Absolute encoder board	AC600PG4		Absolute encoder for closed-loop control					
	Resolver board	AC600RT1		Resolver for closed-loop control					
	Black box & IO boards	AC600IO1		Black box function, type-c port, 4×X terminals, 1×Y terminal, 1×relay, 1×AI, 1×AO, 3×temperature sensor (PT100, PT1000, KTY84)					





 Models T3-22kW and below have built-in braking units, which need to be connected with braking resistors as required; For models without built-in brake units, external brake unit can be installed as required.
 The terminals (X1-X6/PUL) accept NPN or PNP transistor signals as inputs, and the bias voltage can be obtained from either the drive's internal power supply (+24V terminal) or external power supply (PLC terminal).

R&D 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 37.16% of our workforce, with 74.62% 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 production

> 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.

Quality

Quality Management System Based on Seven **Principles**

Upholding a steadfast commitment to quality, we integrate the highest global standards across every facet of our operations, from procurement to product development and production.

Every one of our products is distinguished by a unique product code, enabling seamless traceability through our advanced product management system.



Service and Support







Home

21 service outlets and 258 contracted marketing channels _have been established, covering 22 provinces and cities_ including Hong Kong, Macao and Taiwan.

Abroad

Offices and service outlets have been established in major cities in Southeast Asia, South Asia, the CIS, the Middle East, Europe, Africa and the Americas, gradually expanding to the whole global.

In-sales

Regular return visits, timely maintenance