V&T DRIVE PRODUCT CATALOGUE



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V&T Technologies Co.,Ltd.

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- V6 series high performance torque control inverter
- V5 series high performance vector control inverter E5 series high performance universal inverter
- High performance Electric Vehicle motor controller
- TS/VY series high performance synchronous/asynchronous servo drive





Company Introduction

Shenzhen V&T Technologies Co., Ltd. was certificated as a "National Hi-tech and Double-Software Enterprise", which has fully intellectual property rights and devotes to the R&D, manufacture, sales and technical service of Inverter, Servo Drive, Electric Vehicle Motor Controller, etc. V&T has won the "Technical Innovation" prize awarded by the Inverter Industry Association, "The Most Competitive Brands" prize awarded by China Electrical Association, "2012 Electric Vehicle Excellent Technology" prize respectively awarded by China Electro-technical Society (CES), the Specialized Committee of Electric Vehicles, the Automotive Engineering Society of China, and the Branch Association of Electric Vehicles. V&T has been ranked as one of the "Top 10 Chinese Inverter Enterprises". V&T successfully listed on the Stock Exchange of China in 2016 (stock code: 300484).

In regard to core and mainstream motor control technologies, Shenzhen V&T Technologies Co., Ltd. has mastered both advanced "Vector Control "and "Torque Control" technology so far. Through continuous technological innovation, international technical exchange and cooperation with other countries, V&T has completely grasped the key control technique, also possesses the capacity of industrialization design and manufacturing. Company has developed and reserved many product series. The product voltage grade mainly contains 200V, 400V, 690V, 1140V, and the power grade varies from 0.4kW to 3000kW, which could meet various application demands for high, medium and low-end market.

Under the premise of meeting international standards and satisfying different industries' application requirements, we further strengthened the product reliability and environment adaptability to suit harsh and extreme environments. Customized product and industrialized design can better meet medium and high-end application demands. The products have been widely used in electric vehicles, metallurgy, crane, oil, chemicals, machine tools, metal processing, building materials, stone, wood processing, ceramics, plastics, air compressor, washing machine, water supply, air conditioning, municipal engineering, textile, printing, mining, solar pump and other industries.

Main Product Series

Product Series

- TS series high performance synchronous motor servo drive. (Voltage Grade: 200V, 400V. Power Range: 0.4kW~200kW)
- V6 series high performance torque control inverter. (Voltage Grade: 400V, 690V. Power Range: 0.4kW~500kW)
- V5 series high performance vector control inverter. (Voltage Grade: 200V, 400V, 690V, 1140V. Power Range: 0.4kW~3MW)
- E5 series general purpose vector control inverter.(Voltage Grade:200V,400V,690V,1140V.Power Range:0.4kW~3MW)

■ Special Purpose Product Series

- Electric vehicle motor controller
- Special purpose inverter for crane
- Special purpose inverter for mine winch
- Special purpose inverter for water supply

- Special purpose inverter for printing industry Special purpose inverter for music fountain
- Special purpose inverter for tension control
- Special purpose drive for solar-powered pumps Asynchronous servo drive
- Integrated energy-saving control cabinet
- Special inverter for stone processing industry
- Special purpose inverter for ceramic industry High frequency inverter (max 3200Hz)
- Servo drive
- Special purpose inverter for air compressor
- Special purpose inverter for textile spinning machine
- Special purpose inverter for centrifugal machine
- Explosion-proof inverter (690V/1140V)











With the dedicated spirit of continuous R&D and technology to promote evolution in the last decade, Shenzhen V&T Technologies Co., Ltd. was officially listed on the Growth Enterprise Market (GEM) of Shenzhen Stock Exchange (SSE) on March 22, 2016 (stock name "LHHT", stock code: "300484")











V&T PRODUCT CATALOGUE 1 01-02

Applications of Typical Industries



Electric Vehicle Drive

- Prominent structure design of high protection level, simple and convenient wiring
- Accurate torque control perfectly matches with engine working
- Energy saving mode, super battery endurance
- Professional built-in CAN-BUS adapter card of cars



Ceramics Machinery

- Strong adaptability of environmental temperature
- Professional solutions for anti-interference and lightning protection
- Reliable and stable operation, corrosion prevention
- Non-trip, reliable control and protection for power modules

Oil Field



- Special inverter for pumping unit, do not need energy feedback or dynamic braking.
- Higher power saving effect, less harmonic and reactive current
- Select high quality Outdoor Control Cabinet Box products constant temperature control box can be long-term working reliably in the field of high and low temperature
- Rich and flexible monitoring function can wirelessly transmit inverter data or record data through relevant storage medium



V&T PRODUCT CATALOGUE

Explosion-proof Products

- Passed National Detection and Testing Certificate
- Various voltage levels of products 200/400/690/1140V
- Wide operating voltage, continuously operating in low voltage and interference electricity, strong environmental adaptability
- Supporting automatic restart when power resume normal

Mine Winch



- Abundant experience in the renovation of winch, providing different types of winch renovation solutions
- Vector technology platform providing excellent control performance for the winch
- A variety of protection functions to ensure more secure and reliable system
- \bullet Intelligent fault diagnosis to reduce maintenance and repair work

Industry EPS



- Adopting digital control technology of DSP and CPLD and high efficiency technology of IGBT, higher reliability, lower loss
- Superior load characteristic, tracking synchronously, sinusoidal output, switching on line
- Man-machine interface of LCD, perfect function of protection, convenient to use
- Dynamic characteristics of high performance and the shortest switching time is less than 3ms

Injection molding industry

- There are 2 ways of solutions to be chosen:
 Integrated Energy-Saving Control Cabinet or specific inverter for Plastic Machine
- The motor drive solution can be chosen as optional: asynchronous servomotor solution or synchronous servomotor solution with double closed-loop control
- No high-pressure throttle and loss of overflowed energy, energy-saving rate can reach to 25%~70%
- Design of independent duct makes rear parts and top fan can be convenient to disassemble and easy to maintain; it has strong environmental adaptability and high protection level as well

Air Compressor Industry

- High precision vector frequency conversion; Closed-loop constant pressure control; Multi-machine networking control
- Energy saving rate can reach to 20%~50%
 Intelligent sleeping and low voltage awakening
- Standard inverter solution, specific converter solution for air compressor, integrated cabinet solution for air compressor energy saving are optional

V&T Technologies Co., Ltd.

Textile industry

efficiency of production

equipment of yarn winding

• Reducing the rate of breakage and improving the

• Specially made external heat radiator, cotton easy

• Unique function of swing frequency is suitable for

• Rich indication signals: full indication, broken wire

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Machine Tool Industry

- Supporting 1000Kbps high-speed communication
- Drive spindle 180 thousand rpm successfully to operate
- For the spindle closed-loop control: the inverter with orientation servo features
- For the spindle open-loop control: diversified vector control methods to adapt to various machine tools



Printing And Packaging Industry

- High performance vector control and torque control technology can achieve the constant linear speed control and constant tension control
- Applicable for devices of cutting machine, coating machine, papermade machine, printing machine, compound machine, rolling dyeing machine, etc.
- Torque control without encoder speed feedback and it can replace torque motor widely



Municipal Engineering

- Central air conditioning/refrigeration house: for constant temperature control, high efficiency of energy-saving, and low noise
- Centralized water supply in constant pressure: Built-in one-for-all
 expansion card for water supply, multi-period water supply in constant
 pressure with timing loop, solving the phenomena of overflowing and
 water hammer in the switching process
 - onstant g and and
- Sewage treatment: Built-in adaptive torque control in the main and auxiliary drive of centrifugal equipment for quick acceleration and deceleration, suitable for harsh environment
- Various fan drives: Designed for the fan, high efficiency of energy-saving, noise optimization, built-in automatic speed tracking function, maximum power up to 800kW

Crane

- Excelent torque control, reliable brake control sequence;
- Professional crane control functions: speed monitoring, torque monitoring, torque verification, power optimization, position processing, intelligent deceleration, etc.
- Extensively apply to: port, shipping, ocean engineering, mine, architecture, metallurgy, factory and various kinds of industries' lifting machines.

Stone Processing

- Simple and convenient operation, less connection line
- Smooth running curve to reduce the board damage rate, smooth starting to reduce mechanical damage and maintenance costs
- Providing the constant tension control for broken rope, main and auxiliary functions for frequency operation, safe stopping function, and alarm prompt function



Wood Processing

- Built-in technology algorithm of rotary cutting machine, rolling machine, peeling machine
- Wide voltage range, particularly suitable for harsh conditions in the rural power grid
- High precision and fast rotary cutting to increase the yield under the premise of keeping the uniformity of thickness for the wood veneer
- Stable and reliable work makes customers enjoy quality green power





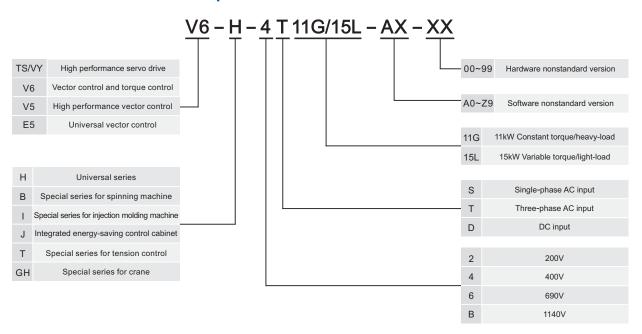




Technical Specifications

	Control mode	Vector control 1 without encoder speed feedback	Vector control 2 without encoder speed feedback	Vector control 2 with encoder speed feedback
	Starting torque	0.50Hz 180%	0.25Hz 180%	0.00Hz 180%
	Range of speed regulation	1:100	1:200	1:1000
Control characteristics	Precision of steady speed	± 0.5%	± 0.2%	± 0.02%
	Torque control	NO	YES	YES
	Torque control precision	-	± 5%	± 5%
	Torque response time	-	<20ms	<10ms
	Key functions	reference (up to 23 stages), motor para	start command source, speed tracing function ameters auto-tuning, S curve acceleration and tion, on-line switching of torque control and sy and output terminals.	d deceleration, slip compensation, PID
	Frequency reference modes	Operation panel setting, multi-function setting, analog setting(AI1/AI2/AI3) , hi	input terminal setting, Up/Dn setting(operation igh speed pulse setting(DI terminal)	n panel or terminal),communication
	Frequency range	0.00~300.00 Hz Note: Frequency range between 0.0~30	000.0Hz, can be customized according to custo	omers' requirements under vector control 1
General	Start-up frequency	0.00~60.00Hz	,	
functions	Acceleration time and deceleration time	0.1~3600.0s or 1~36000s, can be chos	sen as option	
	Dynamic braking capacity	Braking unit action voltage:650~750V; Operation period: 100.0s Braking unit can be built-in under V6-h		
	DC braking capability		00Hz .0 -120.0%; Variable torque 0. 0 -90.0% itial waiting time for DC braking to realize quic	ck braking
	Magnetic flux braking function	Action or no action is optional, action of	luring deceleration as default	
	Multi-functional button M	The unique multifunction key can be secommand source switching , display m	et to the frequently used operations, such as contenu switching ,etc.	JOG, emergency shutdown, running
	Multi menu mode	Basic menu mode, fast menu mode, m	enu mode of non-factory setting function code	es
	Parameters copy	The standard digital panel can realize select to forbid the overwriting of the u	the parameters uploading, downloading and d ploaded parameters.	lisplay the copy progress. Users can
	Show/hide function code	Users can customize any function code	e to be shown or hidden	
	Double 485 communication ports	Dual 485 communication ports support digital panel can realize the function of	t Modbus protocol (RTU). The standard a remote control box within 500m	
Unique	Operation panel	Button or shuttle type digital panel option	onal, protection level: offered in IP20 as stand	lard, offered in IP54 as option
Characteristics	Common DC-BUS	All series can realize common DC-BUS	S supply for several inverters	
	Independent duct	All series adopts independent duct des	sign and supports the installation of heat-sink	outside the cabinet
	Power On Self-Test (POST)	Realizing the POST of internal and per disconnection etc.	ripheral circuits, including motor grounding, +	10V power supply output, analog input,
Protection function	failure, module(IPM) protectic current detection, output to g EEPROM operation, abnorm analog input, motor overheat	on, heat sink overheating protection, inv round short circuit, abnormal power failt al relay contact, temperature sampling o	rotection, interference protection, abnormal co verter overload protection, motor overload prot ure during operation, abnormal input power, o disconnection, encoder disconnection, abnorm onormal version compatibility, abnormal copyin ction	tection, peripheral protection, abnormal utput power phase failure, abnormal nal +10V power supply output, abnormal
Efficiency	At rated power, 7.5kW and be	elow, ≥93%; 11kW~45kW, ≥95%; 55kV	W and above, ≥98%	
	Operating site	modes are not allowed. The cooling modes	y in the electric control cabinet with good vent edium is the air. The product shall be installed st, steam, drip and free from direct sunlight,	
	Ambient temperature	-10~+40°C; Derated at 40~50°C, the ra	ated output current shall be decreased by 1%	for every temperature rise of 1°C
Environment	Humidity	5~95%, no condensing		
	Altitude	0~2000m;Derated above 1000m, the r	ated output current shall be decreased by 1%	for every rise of 100m
	Vibration	3.5m/s2, 2~9Hz;10 m/s2,9~200Hz;15 i	m/s2,200~500Hz	
	Storage temperature	-40~+70°C		

Product Model Description



Typical Industry Selection Table

erformance universal inverter.All Wood planning machine Extruder Die casting machine Knitting machine Wire drawing machine Micro wire drawing machine eplace torque motor wire collection Fan		erter;V5 series: high performance vector control inverter;E5 series: high ort 200V, 400V and 690V voltage input, maximum power up to 3MW. High speed stabilization precision,large torque, high finished product rate Large extrusion pressure,without tripping, discharge and flow uniform Rapid response and large torque, multi-pump and good synchronization performance Large start torque, wide voltage fluctuation adaptability Stretching control smooth, Take-Two options are available with or without pendulum Can stretch 0.001mm filaments
Extruder Die casting machine Knitting machine Wire drawing machine Micro wire drawing machine eplace torque motor wire collection Fan	V5-H V5-H V5-H V6-H V5-H	Large extrusion pressure, without tripping, discharge and flow uniform Rapid response and large torque, multi-pump and good synchronization performance Large start torque, wide voltage fluctuation adaptability Stretching control smooth, Take-Two options are available with or without pendulum
Die casting machine Knitting machine Wire drawing machine Micro wire drawing machine eplace torque motor wire collection Fan	V5-H V5-H V6-H V5-H	Rapid response and large torque, multi-pump and good synchronization performance Large start torque, wide voltage fluctuation adaptability Stretching control smooth, Take-Two options are available with or without pendulum
Knitting machine Wire drawing machine Micro wire drawing machine eplace torque motor wire collection Fan	V5-H V6-H V5-H	Large start torque, wide voltage fluctuation adaptability Stretching control smooth, Take-Two options are available with or without pendulum
Wire drawing machine Micro wire drawing machine eplace torque motor wire collection Fan	V6-H V5-H	Stretching control smooth, Take-Two options are available with or without pendulum
Micro wire drawing machine eplace torque motor wire collection	V5-H	
eplace torque motor wire collection		Can stretch 0.001mm filaments
Fan	V6-H	
		Extensive use, first open-loop tension control
	E5-H	Support built-in speed tracking card
ater supply(1 inverter drive 1 motor)	E5-H	Closed-loop, sleep wake, and overpressure protection functions
entral air conditioning/Cold storage	E5-H	Realize constant temperature control , high energy saving
Compressor integration	V5-H	Small and high efficient, national popular inverter compressor suite
Plastics blow molding machine	V5-H	Super rapid acceleration and deceleration performance, ensure product consistendy
Leather paring machine	V6-H	Open loop torque control, smoothly switch with speed control and torque control
Fishing net machine	V6-H	Open torque control, for wire fishing net
Paper machine	V6-H	Bus control acts as executive body, multi-point transmission
Paper cutting machine	V6-H	Fast response the frequency reference, cutting with high speed, large torque and high precision
Mine winch	V5-H	Run stably and reliably, working together with mechanical brake to realize mid-slope stop and star
Ship crane/crane	V5-H	Wide range voltage, low voltage or voltage fluctuation can work continuously, environmental adaptabilitye
Belt conveyor	V5-H	Multi-speed transmission, excellent synchronization performance, large torque under low-speed, strong load capability
Building lifting machine	V5-H	Large lifting torque, high energy saving
Oil transfer pump/sand pump	V5-H	With zero frequency function, you can auto start and shutdown according to the conditions
Single EPS	V5-H	Reliable short-circuit protection, running with auto reset, additionally,running with 50Hz heat cut into motor
System EPS	V5-H	Mature system solution, 3ms synchronization traces AC
Ceramic machine	V5-H	Running reliably and steadily, with anti-corrosion treatment
echanical vibration generator system	V5-H	Ultra fast acceleration and deceleration performance, excellent motor change direction contro
Pile drive	V5-H	High energy saving efficiency, large torque, easy to change speed
Mixer	V5-H	"Bulldozer" feature, not trip, excellent IGBT control and protection
l	Compressor integration Plastics blow molding machine Leather paring machine Fishing net machine Paper machine Paper cutting machine Mine winch Ship crane/crane Belt conveyor Building lifting machine Oil transfer pump/sand pump Single EPS System EPS Ceramic machine chanical vibration generator system Pile drive	Compressor integration V5-H Plastics blow molding machine V5-H Leather paring machine V6-H Fishing net machine V6-H Paper machine V6-H Paper cutting machine V6-H Mine winch V5-H Ship crane/crane V5-H Belt conveyor V5-H Building lifting machine V5-H Oil transfer pump/sand pump V5-H Single EPS V5-H System EPS V5-H Ceramic machine V5-H chanical vibration generator system V5-H

Note:If you have any requirement, please contact with manufacturer.



Universal Series

V5, \	/6, E5−H Series Thr	ee-ph	ase 40	0V Co	nstan	t torqu	e/heav	vy-load	d appli	cation							
(V5	Type 5/V6/E5−H-4T□□□G)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90
	Motor power(kW)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90
	Voltage (V)						Th	ree-ph	ase 0 t	o rated	input v	oltage					
Output	Rated current (A)	2.5	3.8	5.5	9	13	17	24	30	39	45	60	75	91	112	150	176
	Overload capacity					150	% 1 mi	nute, 1	80% 1	0 secor	nds, 20	0% 0.5	secon	d			
	Rated voltage/frequency						Th	ree-ph	ase 380)V/480	√; 50Hz	z/60Hz					
Input	Allowable voltage range			323	V ~ 528	3V; Volt	age unl	balance	dness	≤3%; a	allowab	le freq	uency f	luctuati	ion: ±5°	%	
	Rated current (A)	2.8	4.2	6.1	10	15	19	26	33	43	50	66	83	100	123	165	160
	Braking unit			Bui	lt-in as	standar	rd					Bui	lt-in as	option			
	Protection class								IP.	20							
	Cooling mode	Self-c	Self-cooling Forced air cooling														
(V5	Type //6/E5-H-4T□□□G)	110	132	160	185	200	220	250	280	315	355	400	450	500			
	Motor power(kW)	110	132	160	185	200	220	250	280	315	355	400	450	500			
	Voltage (V)						Tł	ree-ph	ase 0 t	o rated	input v	oltage					
Output	Rated current (A)	210	253	304	350	380	426	470	520	600	650	690	775	860			
	Overload capacity					150	% 1 mi	nute, 1	80% 1	0 secor	nds, 20	0% 0.5	secon	d			
	Rated voltage/frequency						Th	ree-ph	ase 380)V/480	V; 50Hz	z/60Hz					
Input	Allowable voltage range		323V ~ 528V; Voltage unbalancedness ≤3%; allowable frequency fluctuation: ±5%														
	Rated current (A)	196	232	282	326	352	385	437	491	580	624	670	755	840			
	Braking unit							Extern	al brakiı	ng unit i	needed						
	Protection class								IP	20							
	Cooling mode		Forced air cooling														

V5, '	V6 Series Three-pha	se 40	0V Va	riable	torque	e/light-	load a	pplica	tion								
(V	Type 5/V6−H <i>−</i> 4T□□□L)	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110
	Motor power(kW)	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55	75	90	110
	Voltage (V)						TI	hree-ph	nase 0 t	o rated	input v	oltage					
Outpu	Rated current (A)	3.3	5.0	7.5	11	17	22	30	37	44	56	72	91	110	142	176	210
	Overload capacity						1	115% 1	minute	, 160%	0.5 se	cond					
	Rated voltage/frequency						Th	ree-ph	ase 380	0V/480	V; 50Hz	z/60Hz					
Input	Allowable voltage range			323	V ~ 528	BV; Volt	age un	balanc	edness	≤3%;	allowab	le freq	uency f	luctuati	ion: ±59	%	
	Rated current (A)	3.6	5.5	8.3	12	19	25	33	40	50	62	80	100	121	156	194	196
	Braking unit			Bui	It-in as	standar	d d					Bui	lt-in as	option			
	Protection class								ΙP	20							
	Cooling mode	Self-c	ooling					F	orced a	ir coolir	ng						
(V	Type /5/V6−H−4T□□□L)	132	160	185	200	220	250	280	315	355	400	450	500	560			
	Motor power(kW)	132	160	185	200	220	250	280	315	355	400	450	500	560			
	Voltage (V)						TI	hree-pl	nase 0 t	o rated	input v	oltage					
Output	Rated current (A)	253	304	350	380	426	470	520	600	650	690	775	860	950			
	Overload capacity						1	115% 1	minute	, 160%	0.5 se	cond					
	Rated voltage/frequency						Th	ree-ph	ase 380	0V/480	V; 50Hz	z/60Hz					
Input	Allowable voltage range			323	V ~ 528	3V; Volt	age un	balanc	edness	≤3%;	allowat	le freq	uency f	luctuati	ion: ±59	%	
	Rated current (A)	232	282	326	352	385	437	491	580	624	670	755	840	920			
	Braking unit							Extern	al braki	ng unit	needed						
	Protection class								ΙP	20							
	Cooling mode							F	orced a	ir cooli	ng						

Note:If you have any requirement, please contact with manufacturer.

Universal Series

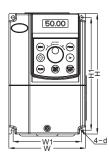
V5−I	H Series Three-phas	e 690'	V Cons	tant to	rque/h	eavy-lo	oad ap	plicatio	n							
(Type V5−H−6T□□□G)	15	18.5	22	30	37	45	55	75	90	110	132	160	185	200	220
	Motor power(kW)	15	18.5	22	30	37	45	55	75	90	110	132	160	185	200	220
	Voltage (V)						Three	-phase	0 to rate	ed input	tvoltage	9				
Output	Rated current (A)	20	25	28	35	45	52	65	86	98	120	150	176	204	220	245
	Overload capacity					150%	1 minute	e, 180%	10 sec	conds, 2	200% 0	.5 seco	nd			
	Rated voltage/frequency						Three	-phase	690V/79	90V; 50	Hz/60H	Z				
Input	Allowable voltage range			587V	~ 793V;	Voltage	unbala	incedne	ss ≤3%	%; allow	able fre	quency	fluctua	tion: ±5°	%	
	Rated current (A)	25	30	35	40	47	52	65	85	96	116	145	168	196	210	230
	Braking unit				Built-in a	as optior	ı				Е	xternal	braking	unit nee	eded	
	Protection class								IP20							
	Cooling mode							Force	ed air co	oling						
(Type V5–H–6T□□□G)	250	280	315	355	400	450	500	560	630						
	Motor power(kW)	250	280	315	355	400	450	500	560	630						
	Voltage (V)						Three	-phase	0 to rate	ed input	tvoltage	9				
Output	Rated current (A)	275	325	350	395	435	490	545	600	680						
	Overload capacity					150%	1 minute	e, 180%	10 sec	conds, 2	200% 0	.5 seco	nd			
	Rated voltage/frequency						Three	-phase	690V/79	90V; 50	Hz/60H	Z				
Input	Allowable voltage range			587V	~ 793V;	Voltage	unbala	incedne	ss ≤3%	%; allow	able fre	quency	fluctua	tion: ±5°	%	
	Rated current (A)	255	290	335	378	415	466	520	580	655						
	Braking unit						Ext	ernal bra	aking ur	nit neede	ed					
	Protection class								IP20							
	Cooling mode							Force	ed air co	ooling						

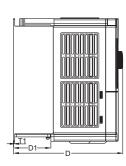
V5-H,V6-H Series Sir	igle-pha	se/Thr	ee-pha	se 200	V Con	stant to	orque/h	eavy-l	oad ap	plicati	on				
Type (V5/6−H−2T□□□G)	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55
Motor power(kW)	0.4	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55
Voltage (V)						Thre	e-phase	0 to ra	ted inpu	ıt voltag	je				
Output Rated current (A)	3	5	7.5	10	17	24	32	46	64	71	87	115	145	175	215
Overload capacity	1	50% 1	minute,	180%	10 seco	nds, 20	0% 0.5	second	, interva	al: 10 m	inutes (inverse	time lag	g featur	e)
Rated voltage/frequen	cy Three/s	single-ph	ase 200	V/240V				Three-	phase 2	200V/24	0V; 50H	Hz/60Hz			
Input Allowable voltage range	ge		180V	~ 260V	; Voltag	e unbal	ancedne	ess ≤3°	%; allov	vable fre	equency	y fluctua	tion: ±5	%	
Rated current (A)	3.8	5.5	8.3	12	18.5	26	35	51	70	78	95	124	156	185	230
Braking unit				Built	-in as st	andard				Е	Built-in a	s option			
Protection class								IP20							
Cooling mode	Self-c	ooling					Forc	ed air co	ooling						
Type (V5/6–H−2T□□□G)	75	90	110	132											
Motor power(kW)	75	90	110	132											
Voltage (V)						Thre	e-phase	0 to ra	ted inpu	ıt voltag	je				
Output Rated current (A)	283	346	432	520											
Overload capacity	1	50% 1	minute,	180%	10 seco	nds, 20	0% 0.5	second	, interva	al: 10 m	inutes (inverse	time lag	g featur	e)
Rated voltage/frequen	су					Three	e-phase	200V/2	240V; 50)Hz/60H	Ιz				
Input Allowable voltage rang	ge		180V	~ 260V	; Voltag	e unbal	ancedne	ess ≤3°	%; allov	vable fre	equency	y fluctua	tion: ±5	%	
Rated current (A)	298	365	445	530											
Braking unit						Ex	ternal b	raking u	nit need	led					
Protection class		IP20													
Cooling mode							Force	ed air co	oling						

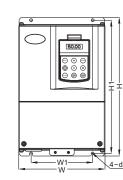
Note:If you have any requirement, please contact with manufacturer.

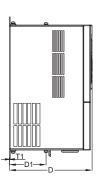


Product Outline, Mounting Dimension, and Weight









 $V5/V6-H-2T3.7G \ and \ below \ power \ range$ $V5/V6-H-4T7.5G/11L, E5-H-4T7.5G \ and \ below \ power \ range$

V5-H-6T15G and above power range V5/V6-H-2T5.5G and above power range V5/V6-H-4T11G/15L,E5-H-4T11G and above power range

Voltage	Investor to ma		O	utline an	d mountii	ng dimer	nsion (mn	1)		Approximate	Type of
class	Inverter type	W	Н	D	W1	H1	D1	T1	d	weight(kg)	main circuit terminal
	V□-H-2T0.4G			155			40.8	3		1.5	
	V□-H-2T0.75G	440	100	175	405	470	60.5	4		2.2	•
	V□-H-2T1.5G	118	190	155	105	173	40.8	3	5.5	1.5	Α
	V□-H-2T2.2G			175			60.5	4		2.2	
	V□-H-2T3.7G	155	249	185	136	232	69	8	5.5	3	Α
	V□-H-2T5.5G										
	V□-H-2T7.5G	210	337	200	150	324	107.5	2.5	7	8.5	Α
	V□-H-2T11G										
	V□-H-2T15G	285	440	220	200	425	107.5	2.5	7	17	В
200V	V□-H-2T18.5G	203	440	220	200	423	107.5	2.0	'	17	В
	V□-H-2T22G	315	575	227	220	553	123.5	2.5	10	25	В
	V□-H-2T30G										
	V□-H-2T37G	400	615	265	270	590	123.5	3.0	10	35	В
	V□-H-2T45G										
	V□-H-2T55G	465	745	325	343	715	156	3.0	12	55	С
	V□-H-2T75G	400	740	020	040	710	100	0.0	12	33	Ü
	V□-H-2T90G	540	890	385	370	855	205.5	4.0	14	85	С
	V□-H-2T110G	040	000	000	070	000	200.0	4.0	17	00	Ü
	V□-H-2T132G	700	1010	385	520	977	210	4.0	14	125	
	V□-H-4T0.75G/1.5L, E5-H-4T0.75G	118	190	155	105	173	40.8	3	5.5	1.5	Α
	V□-H-4T1.5G/2.2L, E5-H-4T1.5G										
	V□-H-4T2.2G/3.7L, E5-H-4T2.2G	118	190	175	105	173	60.5	4	5.5	2.6	Α
	V□-H-4T3.7G/5.5L, E5-H-4T3.7G										
	V□-H-4T5.5G/7.5L, E5-H-4T5.5G	155	249	185	136	232	69	8	5.5	3	Α
400V	V□-H-4T7.5G/11L, E5-H-4T7.5G		2.0				00	ŭ	0.0	ŭ	
	V□-H-4T11G/15L, E5-H-4T11G	210	337	200	150	324	107.5	2.5	7	8.5	Α
	V□-H-4T15G/18.5L, E5-H-4T15G	2.0				02.		2.0	·	0.0	
	V□-H-4T18.5GA/22LA, E5-H-4T18.5GA										
	V□-H-4T22GA/30LA, E5-H-4T22GA	285	440	220	200	425	107.5	2.5	7	17	В
	V□-H-4T30GA/37LA, E5-H-4T30GA										

Product Outline, Mounting Dimension, and Weight

Voltage				Outlin	e and mo	ounting d	limension	n (mm)		Approximate	Type of
class	Inverter type	W	Н	D	W1	H1	D1	T1	d	weight(kg)	main circuit terminal
	V□-H-4T37GA/45LA,E5-H-4T37GA										_
	V□-H-4T45GA/55LA,E5-H-4T45GA	315	575	227	220	553	123.5	2.5	10	25	В
	V□-H-4T55GA/75LA,E5-H-4T55GA										_
	V□-H-4T75GA/90LA,E5-H-4T75GA	400	615	265	270	590	123.5	3.0	10	35	В
	V□-H-4T90G/110L, E5-H-4T90G	405	745	005	0.40	745	450	0.0	40		0
	V□-H-4T110G/132L,E5-H-4T110G	465	745	325	343	715	156	3.0	12	55	С
	V□-H-4T132G/160L,E5-H-4T132G										
400V	V□-H-4T160G/185L, E5 -H- 4T160G	540	890	385	370	855	205.5	4.0	14	85	С
4000	V□-H-4T185G/200L, E5 -H- 4T185G	340	090	300	310	655	205.5	4.0	14	65	C
	V□-H-4T200G/220L, E5-H-4T200G										
	V□-H-4T220G/250L, E5 -H- 4T220G										
	V□-H-4T250G/280L, E5 -H- 4T250G	700	1010	385	520	977	210	4.0	14	125	С
	V□-H-4T280G/315L, E5-H-4T280G										
	V□-H-4T315G/355L, E5-H-4T315G										
	V□-H-4T355G/400L, E5-H-4T355G										
	V□-H-4T400G/450L, E5-H-4T400G	810	1358	425	520	1300	210	4.0	14	215	С
	V□-H-4T450G/500L, E5-H-4T450G										
	V□-H-4T500G/560L, E5-H-4T500G										
	V5-H-6T15G										
	V5-H-6T18.5G	285	440	220	200	425	107.5	2.5	7	17	В
	V5-H-6T22G										
	V5-H-6T30G										
	V5-H-6T37G										
	V5-H-6T45G	315	575	227	220	553	123.5	2.5	10	25	В
	V5-H-6T55G										
	V5-H-6T75G	400	615	265	270	590	123.5	3.0	10	35	В
	V5-H-6T90G										
	V5-H-6T110G	465	745	325	343	715	156	3.0	12	55	С
	V5-H-6T132G										
690V	V5-H-6T160G										
	V5-H-6T185G	540	890	385	370	855	205.5	4.0	14	85	С
	V5-H-6T200G										
	V5-H-6T220G										
	V5-H-6T250G										
	V5-H-6T280G	700	1010	385	520	977	210	4.0	14	125	С
	V5-H-6T315G V5-H-6T355G										
	V5-H-6T400G V5-H-6T450G										
	V5-H-6T500G	810	1358	425	520	1300	210	4.0	14	215	С
		010	1330	420	320	1300	210	4.0	14	210	C
	V5-H-6T560G										
	V5-H-6T630G										

Note:V☐ indicates V5 or V6 series inverter.



Functions of Main Circuit Terminal

Type A

R/L1	S/L2	T/L3	⊕1	⊕2/B1	B2	Θ	U/T1	V/T2	W/T3
	POWER			OPTIO	V		MOTOR		



Type B

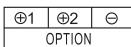
R/L1	S/L2	T/L3	⊕1	⊕2	Θ	U/T1	V/T2	W/T3
	POWER			OPTION			MOTOR	



Type C

POWER						
R/L1	S/L2	T/L3				







U/T1	V/T2	W/T3
	MOTOR	}

 $V \Box - H - 2T15G - 06 \sim V \Box - H - 2T45G - 06 \ \ V5/V6 - \Box - 4T18.5GA/22LA - 06 \sim V5/V6 - \Box - 4T75GA/90LA - 06 \ \ \ V5 - H - 6T15G - 06 \sim V5 - H - 6T90G - 06 (-06 indtcate built-in braking unit)$

R/L1	S/L2	T/L3	B1	B2	Φ	U/T1	V/T2	W/T3
POWER			OPTION			MOTOR		



Terminal symbol	Terminal name and function description		
R/L1,S/L2,T/L3	Three-phase AC power input terminal		
⊕1,⊕2/B1 or ⊕1,⊕2	DC reactor connecting terminal, 4T90G/110L and below power class short circuited with copper bus upon delivery		
⊕2/B1,B2 or B1,B2	Connecting terminal of braking resistor		
⊕2/B1,⊖ or ⊕2,⊖	DC power input terminal; DC input terminal of external braking unit		
U/T1,V/T2,W/T3	Three-phase AC power output terminal		
	Grounding terminal PE		

Note:V□ indicates V5, V6 series inverter.

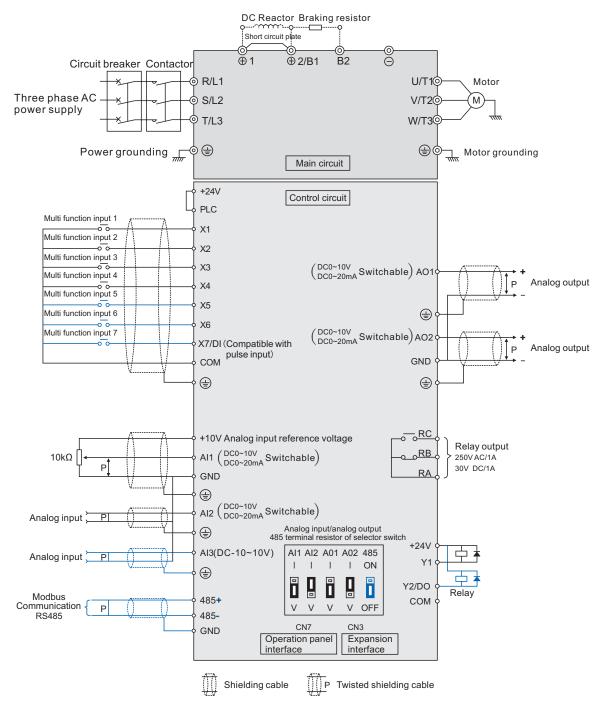
Optional Accessories

Accessories name		Туре	Function description		
Built-in braking unit		Type with "-06"	Built-in braking unit from 18.5kW to 75kW is optional and support common DC bus		
		Type with "-26"	Built-in braking unit from 18.5kW to 75kW is optional and support external DC re		
485 Communication		Type with "-34"	E5 Series increase 485 and high speed pulse terminals		
Vectorque monitoring software		CD-RM01	V1.00		
PG01 feedbac	ck card	EX-PG01	A/B/Z Open collector input (12V)		
PG02 feedbac	ck card	EX-PG02	A/B/Z Differential input (5V)		
PG03 feedback card		EX-PG03	A/B/Z Open collector input with frequency division output (12V)		
PG04 feedbac	ck card	EX-PG04	A/B/Z Differential input with frequency division output (5V)		
PG06 feedbac	ck card	EX-PG06	U/V/W encoder input		
PG07 feedbad		EX-PG07	Resolver input		
Injection mold interface card		EX-PM01	Two-circuit isolation input 0-1A/0-2A/0-24V		
Injection molding machine interface card 2		EX-PM02	Two-circuit isolation input 0-1A/0-2A		
	l expansion card	EX-DT01	Externally expand four multi-function input terminals and three relay output terminals		
Digital termina	ii cxparision card	EX-DT02	Externally expand seven controllable relay output terminals.		
Programmable clock control card		EX-DT03	Independent clock, has eight controllable relay output terminals.		
Power Monitoring card		EX-PA01	Power lacks/instantaneous power-off monitor		
Phase sequence detection card		EX-PA02	Three-phase input power phase sequence detection		
Speed tracking card		EX-PA03	Realize speed tracking		
External power rectifier bridge		EX-RF01	Control power provided by an external power supply		
External capa	citor box	EX-CB01	Expand inverter main circuit capacitance for users		
	Shuttle type	V6-DP01	7.5kW and below as standard		
Operation	Bottom type	V6-DP02	11kW and above as standard		
panel	False panel	V6-DP03	Guest selection accessories		
	Pallets	V6-DP04	Operation panel installation of accessories		
Test display		EX-MT01	Man-machine interface - Text display		
Touch screen		EX-MT02	Man-machine interface - Touch screen		
		EX-CA06	PROFIBUS communication adapter		
Communication adapter		EX-CA02	RS232 convert to RS485 communication adapterr		
		EX-CA03	USB convert RS485 communication adapter		
CANopen communication adapter card		EX-CA04	Support CAN2.0A, CANopen DS301 V4.02, DS303, Ds305		
Karbaratan	and an Paris	CB1-150	1.5m Keyboard extension line		
Keyboard exte	ension line	CB1-300	3.0m Keyboard extension line		
Communication cables		CB2-RS232	Standard RS232 cable		
		CB3-USB	1.0m USB convert RS232 cable		
Braking resistor		RXHG/RXLG series	Braking resistor Annex		
DC reactor		DCL series	DC Reactor		
AC input reactor		ACL series	AC input Reactor Annex		
AC output reactor		OCL series	AC output Reactor Annex		
Input noise filter		EBK5/40 series	CE specifications Annex		
Output noise filter		EBL series	CE specifications Annex		

Note:If you have any requirements, please feel free to contact us

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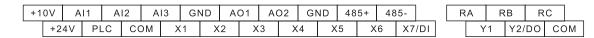
Terminal Wiring



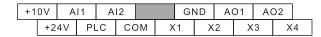
Take V6-H-4T5.5G/7.5L as an example

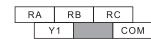
Control Circuit Terminal

V5 and V6 series inverter control circuit terminal



E5 series inverter control circuit terminal





Control Circuit Terminal Function

Туре	Terminal symbol	Terminal function description	Technical specification		
Terminal 485	485+	Positive end of 485 signal	Rate: 4800/9600/19200/38400/57600 bps		
	485-	Negative end of 485 signal	Up to 32 inverter can be paralleled. If exceeds 32, relay shall be used Maximum distance: 500m (Adopt standard twisted shielding cable)		
	GND	Grounding end of 485	Internal isolated with COM		
Operation panel 485	CN7	485 port of operation panel	Connection of communication with host computer, it is the same as terminal 485 The maximum distance is 15m for the communication connection of operation panel (Adopt standard twisted shielding cable)		
Digital input	+24V	+24V	24V±10%; Maximum load: 200mA, with overload and short circuit protection		
	PLC	Common end of multi-functional input terminal	Short circuited with +24V upon factory setting		
	X1~X6	Multi-functional input terminals	Input specification: 24VDC,5mA; Frequency range: $0\sim200$ Hz; Voltage range: $24V\pm20\%$		
	X7/DI	Multi-functional input or pulse input	$eq:Multi-functional input: same as X1~X6; Pulse input: 0.1 Hz~50 kHz; Voltage range: 24V \pm 20\% kHz; Voltage range: 24$		
	COM	+24V GND	Internal isolated with COM		
Digital output	Y1	Open collector output	Voltage range: 24V±20%, maximum input current: 50mA		
	Y2/DO	Open collector or pulse output	Open collector: Same as Y1; Pulse output: 0~50kHz; voltage range: 24V±20%		
output	COM	Open collector output common end	Internal isolated with GND		
	+10V	Analog input reference voltage	10V ±3%, internal isolated with COM; Maximum output current: 10mA, with short circuit and overload protection		
Analog	Al1	Analog input channel 1	0~20mA: Input impedance 500 Ω , maximum input current: 30mA 0~10V: Input impedance 20k Ω , maximum input voltage : 15V Resolution: 12 bits (0.025%)		
input	Al2	Analog input channel 2			
·	Al3	Analog input channel 3	-10V~10V: Input impedance 20k Ω , Resolution: 12 bits (0.025%), Maximum input voltage: ± 15 V		
	GND	Analog GND	Internal isolated with COM		
Analog output	AO1	Analog output channel 1	020mA : allowable output impedance 200500Ω 0~10V: allowable output impedance $\geqslant\!10k\Omega$ Output precision: 2%, resolution: 10 bits (0.1%) ,with short circuit protection function		
	AO2	Analog output channel 2			
	GND	Analog GND	Internal isolated with COM		
Relay output	RA/RB/RC	Relay output	$RA-RB: \ Normally\ closed; RA-RC:\ Normally\ open,\ Contact\ capacity:\ 250VAC/1A,\ 30VDC/1A,\ 20VDC/1A,\ 20$		