V&T DRIVE PRODUCT CATALOGUE



Shenzhen V&T Technologies Co.,Ltd.

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Overseas Sales Department Tel: (+86)0755-23060667 Website: http://www.v-t.net.cn http://www.vtdrive.com E-mail: oversea_sales@v-t.net.cn info@vtdrive.com ■ TS/VY Synchronous/Asynchronous servo drive

■ V5 Series high performance vector control inverter ■ E5 Series high performance universal inverter ■ High performance electric Vehicle motor driver

- V7 Series high performance crane inverter
- V6 series high performance torque control inverter







Shenzhen V&T Technologies Co.,Ltd. Listed Company, Stock Code:300484



Company Introduction

ShenZhen V&T Technologies Co.,Ltd. was certificated as a "National Hi-tech and Double-Software Enterprise" engaged in Variable Frequency Drive, Servo Drive, Electric Vehicle Controller, Inverter and other power electronics product with independent intellectual property rights covering R&D,manufacturing,marketing, with the profound drive know-how, we has won the technical innovation prize, the most competitive brands prize, Champions of National Hybrid Electric Vehicle competition and one of Top Ten Variable Frequency Drive Enterprises in China and etc.

ShenZhen V&T Technologies Co.,Ltd. has advanced asynchronous vector control technology and torque control technology which is the core control technologies in motor drive section, Through continuous technological innovation and international technical exchange, V&T developed core technology with most experienced R&D team in China and completed industrial design and production capacity. Our self-developed products cover a wide range including V5,V6,V7 and E5, voltage level from 220V to 1140V and power rating from 0.4KW to 3MW; can meet many kinds of applications.

For the different environment and industries applications requirement, we strengthen the product reliability and environment adaptability and improve product performance. Customized product and industrialized design meet high level applications, which has been widely used in metallurgy, crane, oil, chemicals, machine tools, electric vehicles, metal processing, building materials, stone, wood processing, ceramics, plastics, air compressor, washing machine, water supply, air conditioning, multiple engineering, textile, printing, mining and etc.

Main Product Series

Standard Platform Series

- V7 series high performance crane inverter.(Voltage degree: 400V,690V. Power Range:0.7kW~500kW)
- V6 series high performance torque control inverter.(Voltage degree: 200V,400V. Power Range:0.4kW~500kW)
- V5 series high performance vector control inverter.(Voltage degree: 200V,400V,690V,1140V. Power Range:0.4kW~3MW)
- E5 series high performance universal inverter.(Voltage degree: 200V,400V,690V,1140V.Power Range:0.4kW~3MW)

Industrialized Platform Series

- Electric vehicle motor driver series Tension control curl special inverter
- · Port crane special inverter
- Mine winch special inverter · Water supply special inverter
- · Ceramic industry special drive

- · Hybrid electro-hydraulic servo driver
- Integration drive injection molding machine
- Stone processing industry-specific inverter
- 3200Hz high frequency special inverter
- Printing industry special inverter
 High energy saving ball mill special inverter
- Tool servo drive
- · Air compressor inverter
- Paper industry special inverter
- · Textile spinning special inverter
- · Centrifugal machine special inverter with torque control
 - Explosion-proof special inverter (690/1140V)







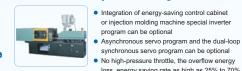


Technical Specifications

	Control mode	Vector control 1	Vector control 2(Without PG card)	Vector control 2(With PG card)
	Startup torque	0.50Hz 180%	0.25Hz 180%	0.00Hz 180%
	Speed adjusting range	1:100	1:200	1:1000
Control	Speed stabilization precision	± 0.5%	± 0.2%	± 0.02%
features	Torque control	NO	YES	YES
	Torque precision	-	± 5%	± 5%
	Torque response time	-	<20ms	<10ms
	Key functions	speed tracing, torque limitation, multi-s compensation, PID adjustment, droopi	AC operation grounding, protective grounding speed operation (up to 23 speeds), auto tuning ng control, current limiting control, torque cont urrent limiting, multi-functional input/output ter	, S curve acceleration/deceleration, slip rol mode and speed control mode
	Frequency setting mode	Operation panel setting, terminal UP/D pulse DI setting	N setting, host computer communication setting	ng, analog setting Al1/Al2/Al3, terminal
	Frequency range	0.00~300.00Hz Note: Upon vector co	ontrol 1, 0.0 ~ 3200.0Hz can be customized	
Product	Startup frequency	0.00~60.00Hz		
functions	Acceleration/deceleration time	0.1~36000.0s		
	Powered braking capacity	Braking unit action voltage: 650 ~ 750	V	
	DC braking capacity		.00Hz .0~120.0%; Variable torque 0. 0~90.0% o waiting time for DC braking to realize quick b	oraking
	Magnetic flux braking function	Ongoing action and no action upon de		•
	Multi functional M key	The unique multifunctional key is frequi command reference mode switch, mer	ently used for setting these useful operations: nu switching	JOG, emergency shutdown, running
	Multiple menu modes	Basic menu mode, fast menu mode. M function codes	lenu mode of non-factory setting function code	es, Menu mode of last changed 10
	Parameter copy	The standard operation panel can real to forbid the overwriting of the uploade	ize the parameter upload, download and displad parameters.	ay the copy progress. The user can selec
	Displayed/hidden function code	Display function codes or hide the func	tion codes can be selected by users	
	Dual 485 communication ports	Dual 485 communication ports support function with a maximum distance of 5	t Modbus protocol (RTU). The standard operat	tion panel can realize remote control box
Unique	Operation panel	Button or shuttle type operation panel	optional, protection class: IP20 as standard, IF	P54 as option
functions	Common DC bus	The full series can realize common DC	bus supply for several inverters	
	Independent duct	The full series adopts independent due	ct design and supports the installation of heats	ink outside the cabinet
	Universal expansion interface	Universal expansion board equipped v bus, software protocol Modbus	vith CPU for supporting secondary development	nt of customers: physical interface SPI
	Expansion card		Molding machine interface card, PG feedback on nonitoring card, Phase sequence detection car	
	Power-up auto detection	Realizing the power-up auto-detection supply output, abnormal analog input, a	of internal and peripheral circuits, including mo and disconnection.	otor grounding, abnormal +10V power
Protection functions	module protection, heatsink o detection, output to ground sh relay contact, temperature sai	vertemperature protection, inverter over ort circuit, abnormal power failure durin inpling disconnection, encoder disconne imal communication, abnormal version	ction, interference protection, abnormal composad protection, motor overload protection, pet goperation, pet goperation, abnormal input power, output paticion, abnormal +10V power supply output, at compatibility, abnormal exp	ripheral protection, abnormal current se failure, abnormal EEPROM, abnormal pnormal analog input, motor
Efficiency	At rated power, 7.5kW and be	low power class ≥93%, 45kW and belo	w power class ≥95%, 55kW and above powe	er class ≥98%
	Operating site		y in the electric control cabinet with good venti edia is the air. The product shall be installed in oil mist, steam and drip	
	Ambient temperature	-10~+40°C, derated at 40~50°C, the ra	sted output current shall be decreased by 1% f	or every temperature rise of 1°C
Environment	Humidity	5~95%, no condensing		
	Altitude	0~2000m, derated above 1000m, the r	rated output current shall be decreased by 1%	for every rise of 100m
	Vibration	3.5mm, 2~9Hz; 10 m/s², 9~200Hz; 15	m/s², 200~500Hz	
	Storage temperature	-40~+70°C		



Applications Of Some Typical Industries



Injection Molding Machine

program can be optional

high degree of protection

or injection molding machine special inverter

synchronous servo program can be optional

Independent air duct design, after the parts,

loss, energy saving rate as high as 25% to 70%

at the top of the fan can be easily demolished,

easy maintenance, environmental adaptability,

VECTOR CONTROL INVERTER

Electric Vehicle Drive

- High degree of protection structure design, easy wiring
- · Precise torque control and engine perfect matched
- Energy saving mode and long duration
- Built-in professional CAN bus adapter

Ceramics Machinery



- Interference, professional Lightning-Protection solution
- · Reliable and stable, Anti-corrosion treatment
- No trip, reliable control and protection of power module

Oilfield



- Oil extraction machine special inverter, without feedback energy or braking energy
- Higher energy saving, smaller harmonic and reactive current
- Provides digital control of outdoor cabinets, constant temperature control cabinet can be long-term reliability in the field work of high or low temperature
- Rich and flexible monitoring function, the inverter data can be storage or wireless transmission

Anti-explosion Products

- Identified through the National Testing Center
- A variety of voltage range of product 200/400/690/1140V
- · Wide voltage range of work, low voltage power can work when electric-dazzling, environmental adaptability
- Support automatic restart function after power recovery

Mine Winch



- Rich experience of winch Transformation,can provide different types of transformation programs
- Vector control technology platform for the winch to provide excellent control performance
- Several protection features to ensure the system more secure
- Intelligent fault diagnosis, reducing the workload of maintenance

Industry EPS



- DSP and CPLD digital control technology and efficient IGBT technology, higher reliability and lower loss
- Superior load characteristics, synchronization tracking, the sinusoidal output, on-line switching
- . LCD interface, comprehensive protection, easy to use
- . High-performance dynamic characteristics, the shortest switching time is less than 3ms

Air Compressor Industry

- High-precision vector control
- · Close loop control for constant pressure
- · Control of multi-machine network • Energy saving rate as high as 20%
- Smart Sleep and Wake-up

to 50%

 Inverter program, air compressor special inverter program, compressor energy-saving cabinet can be optional



Machine Tool Industry

- Support for high-speed communication 1000Kbps
- 18 million drivers to run a successful transfer
- · Closed-loop control with the directional axis servo drive functionality
- · Spindle open-loop control, a variety of vector control to adapt to a variety of machine tools



Printing And Packaging Industry

- · High-performance vector control and torque control to achieve constant linear speed control, and constant tension control
- · For cutting machine, coating machine, paper machine, printing machine, laminating machine, dyeing machines andother equipme
- Without speed encoder program:alternative torque motor can

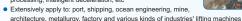


Municipal Engineering

- · Central air conditioning and cold storage, to achieve constant temperature control, high energy saving, low noise
- Concentration constant pressure water supply:built-in control board for one inverter drive several motor, and more regular rotation cycle time pressure water supply, solve the over-current and hammer phenomenon when switching process
- Sewage treatment, centrifuge equipment, the main auxiliary drive built-in torque matching adaptive, fast acceleration and deceleration, environmental adaptability
- . Many types of fan drives: for fan design, high energy saving, noise optimization, built-in automatic speed tracking function, maximum power up to 800kW

Lifting Crane

- · Excellent torque control, reliable brakes control timing
- Professional crane control functions: velocity monitoring, torque monitoring, torque verification, power optimization, position processing, intelligent deceleration, etc



Stone Processing

- . Easy and convenient to operate, connectting wires required to install
- · Running curve is smooth, lower breakage rate of sheet, start smoothly Lower mechanical damage, lower the cost of maintenance
- Internally set anti broken rope and constant tension control, frequency of main and auxiliary operations, safe shutdown, and alarm functions



Wood Processing

- Built-in process methods for peeling machine, rolling pape
- · Wide voltage adaptation range, particularly apply to the bad occassions for rural grid
- · Precisely and rapidly peel, Increase production assuring uniform thickness for wood veneer
- · Stably and reliably work, let customers enjoy high quality green power



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Shenzhen V&T Technologies Co.,Ltd.

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Textile industry

production efficiency

and other instructions

clean the cotton

· Reduce the end breakage rate, increase

Unique external-mounted radiator, easy to

Unique function of the pendulum frequency

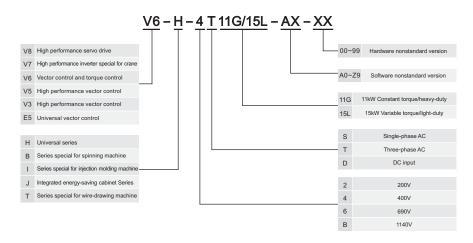
· Rich signal instructions, yarn full instructions,

yard broken instructions, power-off instructions

for yarn and winding machine



Product Model Description



Typical Industry Selection Table

Industrial Application	Equipment	Туре	Characteristics
Standard series product	inverter;V5 series: high performa	ance vector contr	es: high performance crane inverter;V6 series: high performance torque control rol inverter;V3 series: high performance vector control inverter;E5 series: high 1 200V, 400V and 690V voltage input, maximum power up to 3MW.
	Brick molding press	V5-H-A3	High energy saving, large torque, rapidly lifting and falling
Ctara baialousand	Stone-cutters	V5-H-C8	Cutting force evenly with torque current control, large torque under low speed
Stone, brick,wood	Veneer lathe/Guillotine skin machine	V5-S	Rapidly start and stop the machine, build-in process control
	Wood planning machine	V5-H	High speed stabilization precision,large torque, high finished product rate
		VY-IS	Standard inverter cabinet with injection moulding machine interface card
	Injection molding machine (asynchronous motor)	VY-JY	Integration energy-saving control cabinet suppord power frequency mode and variable frequency drive mode switch on line
Plastic Metal		V5-I1	Built-in recharge function supports energy management contract (EMC) mode
Extrusion Processing	Injection molding machine (synchronous servo)	TS-I	Pressure and flow double close loop control, high energy saving
1 roccooning	Extruder	V5-H	Large extrusion pressure, without tripping, discharge and flow uniform
	Die Casting Machine	V5-H	Rapid response and large torque, multi-pump and good synchronization performance
	Blow molding machine	VY-IS	High energy saving, with power frequency mode and variable frequency drive mode switch on linel
	Knitting machine	V5-H	Large start torque, Wide voltage fluctuation adaptability
	Spinning machine(protection series)	V5-B	Closed structure to avoid air duct blockage, with wobble function
Textile	Spinning machine(process series)	V5-H-Y4	Build-in number of worker record, with process curve
industry	Stretch yarn machine	V5-W	Closed-loop process to realize high precision synchronization
	Net tube machine	V5-W	With fixed-length function
	Winding machine	V5-H-Y3	Realize open-loop control for permanent magnet synchronous motor
	Engraving and milling/drilling machine	V5-H-H3	3200Hz
	Spindle open loop control	V5-H-Z9	Arge cutting force, High speed stabilization precision
Machine tool	Spindle close loop control	V6-H-M0	Can realize multi-point positioning
	Grinding machine	V5-H-H3	Stable operation at high speed
	Series special for high speed communication	V5-H-M4	Terminal 485 supports 500K communication rate

Typical Industry Selection Table

Industrial Application	Equipment	Туре	Characteristics
	Dual-inverter wire drawing machine	V5-E	Stretching and collecting inverter should be match
	Wire drawing machine	V5-T;V6-H	Stretching control smooth, Take-Two options are available with or without pendulum
	Micro wire drawing machine	V5-H	Can stretch 0.001mm filaments
Metal processing	Power supply frame	V5-T	Work synchronously
	Replace torque motor wire collection	V6-H	Extensive use, first open-loop tension control
	Steel cutting machine	V6-H-M1	Cut length High precision
	Cold rolling mill	V6-T	Good synchronization performance, easy to change speed, and fast torque response
	Fan	E5-H;V5-H-Y2	Support built-in Speed tracking card
	Water supply(1 inverter drive 1 motor)	E5-H	Closed-loop, sleep wake, and overpressure protection functions
Fans,pump,	Water supply (1 inverter drive several motor)	E5-H-Y7	Build-in extensive water supply card to realize 1 inverter drive many motor, with clock function
air conditioning,	Central Air Conditioning/Cold storage	E5-H	Realize constant temperature control , high energy saving
air compressor	Compressor integration	V5-H	Small and high efficient, national popular inverter compressor suite With power frequency mode and variable frequency drive mode switch on line, support
	Air compressor transformation Conditioning for bus	VY-JY V5-H-Y6	extension air compressor controller
	Sub-cutting machine/integrated machine	V5-H-Y6 V6-T	Build-in compressor air logic control Replace PLC with its coil diameter calculation, synchronize multi-point transmission
	Edge machine/rewinding machine Plastics blow molding machine	V5-T	With disconnection warning, automatic shutdown, Pendulum, floating roller reach place at a ti Super rapid acceleration and deceleration performance, ensure product consistendy
		V5-H	
	Marking press machine/coating machine	V6-T	Under closed-loop torque control, 30g ultra-thin paper can be pulled
Printing and	Leather paring machine	V6-H	Open loop torque control, smoothly switch with speed control and torque control
packing machine	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 precis
	Anilox printing machine	V5-H-2T	Movement back and forth, with short acceleration and deceleration time, positioning is accura
	Material eceiving machine	V5-H-D4	Torque control mode, winding stabilization
	Mine winch	V5-H	Run stably and reliably, working together with mechanical brake to realize mid-slope stop and st
	Travelling crane main hook	V6-H-D6	Low-medium-high multi-speed lifting and landing. Don't slide groove, can share DC bus
	Gantry crane	V5-H-D6	Compatible with Yaskawa independent protocol
Lifting machine	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
	Port machine	V7-G	Special for port machine, supply integrated electronic control program
	Oil extraction machine	V5-U;V6-U	Built-in energy saving mode, voltage and current limit function
Oilfield machine	Oil transfer pump/sand pump	V5-H	With zero frequency function, you can auto start and shutdown according to the condition
	Integrated digital control cabinet for oilfield	U5-J	Temperature control outdoor cabinet, with USB data store and wireless transfer function
ndustrial supplies	Single EPS	V5-H	Reliable short-circuit protection, running with auto reset, additionally,running with 50Hz heat cut into motor
ind external power	System EPS	V5-H	Mature system solution, 3mS synchronization traces AC
supply operation	Convert frequency and voltage power	V5-H-C9	200V/400V series, voltage and frequency output can be changed independently
	Industrial Washing Machine	V5-H-B4	National first-class brand has been use, large washing torque , high spin stability
	Centrifuge	V5-H-B6	Arge torque, rapid acceleration and deceleration, environmental adaptability
	Music Conduit	V5-H-B7	Large start torque, with current limited function and triples
	Ceramic machine	V5-H	Running reliably and steadily, with anti-corrosion treatment
	Mechanical vibration generator system	V5-H	Ultra fast acceleration and deceleration performance, excellent motor change direction confidence
	Pile pressing-in machine	V5-H-F1	Multi-speed operation, with "Bulldozer" feature
Other applications	Electrically operated gate	V5-H-F6	Build-in self-test program if in-place, even if limit signal is invalid, it can stop automaticall
оптег аррисация	Electronic belt weigher	V5-H-F0	Built-in weight flow totalizer, save speed sensor and flow meter
	Pile drive	V5-H	High energy saving efficiency, large torque, easy to change speed
	Ball grinder	V5-Q	Multi-speed operation, timing, large start torque
	Mixer	V5-H	"Bulldozer" feature, not trip, excellent IGBT control and protection
	Electric treadmill	V5-H-2T	Running with steady speed, not tremble feet, strong weight-bearing ability
	Torque drive	V6-H (20090805)	After torque control objectives arrive, output preset torque

 $\label{thm:local_notation} Note: If you have any requirement, please contact with manufacturer.$



Universal Series

V5, \	/6, V8-H, E5-H Seri	es Th	ree-pt	ase 4	00V C	onstar	nt torq	ue/hea	vy-dut	ty appl	ication	1					
(V5	Type /6/8/E5-U-4TUUUG)	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)						TI	ree-ph	ase 0 to	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 m	inute, 1	80% 1	0 secor	nds, 20	0% 0.5	secon	d			
	Rated voltage/frequency						Th	ree-ph	ase 380	0V/480	√; 50Hz	z/60Hz					
Input	Allowable voltage range			323	V ~ 528	V; Volt	age un	balance	edness	≤3%;	allowab	le freq	uency f	luctuati	on: ±59	%	
	Rated current (A)	2.8	4.2	6.1	10	15	19	26	33	43	50	66	83	100	123	165	176
	Braking unit		Built-in as standard Built-in as option														
	Protection class		IP20														
	Cooling mode	Self-c	ooling						Force	d air co	nvectio	n coolin	ıg				
(V5	Type /6/8/E5-□-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)						TI	ree-ph	ase 0 to	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 m	inute, 1	80% 1	0 secor	nds, 20	0% 0.5	secon	d			
	Rated voltage/frequency						Th	ree-ph	ase 380	0V/480	√; 50Hz	z/60Hz					
Input	Allowable voltage range			323	V ~ 528	V; Volt	age un	balance	edness	≤3%;	allowab	le freq	uency f	luctuati	on: ±59	%	
	Rated current (A)	196	232	282	326	352	385	437	491	580	624	670	755	840			
	Braking unit		External braking unit needed														
	Protection class		IP20														
	Cooling mode		Forced air convection cooling														

V5, \	V6 Series Three-pha	se 400	0V Va	riable	torque	/light-	duty a	pplica	ion								
(V	Type 5/V6-□-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)						Th	ree-ph	ase 0 to	o rated	input v	oltage					
Output	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	15% 1	minute	, 160%	0.5 se	cond					
	Rated voltage/frequency						Th	ree-ph	ase 380	V/480	√; 50Hz	z/60Hz					
Input	Allowable voltage range			323	V ~ 528	V; Volt	age unl	balance	edness	≤3%;	allowab	le frequ	uency f	luctuati	ion: ±59	6	
	Rated current (A)	3.6	5.5	8.3	12	19	25	33	40	50	62	80	100	121	156	194	210
	Braking unit			Bui	lt-in as	standar	d					Buil	t-in as	option			
	Protection class								IP.	20							
	Cooling mode	Self-c	ooling						Force	d air co	nvectio	n coolin	g				
(Type V5/V6–4T□□□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)						Th	nree-ph	ase 0 to	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	15% 1	minute	, 160%	0.5 se	cond					
	Rated voltage/frequency						Th	ree-ph	ase 380	V/480	√; 50Hz	z/60Hz					
Input	Allowable voltage range			323	V ~ 528	V; Volt	age unl	balance	edness	≤3%;	allowab	le frequ	uency f	luctuati	ion: ±59	6	
	Rated current (A)	232	282	326	352	385	437	491	580	624	670	755	840	920			
	Braking unit							Extern	al brakir	ng unit	needed						
	Protection class								IP:	20							
	Cooling mode							Forced	air con	vection	cooling						

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

Universal Series

V5-H Series Three-pha	se 690	V Cons	stant to	rque/h	eavy-d	uty 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 inpu	t voltage	е				
Output Rated current (A)	20	25	28	35	45	52	65	86	98	120	150	176	204	220	245
Overload capacity					150%	1 minut	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	ncedne	ss ≤3%	6; allow	able fre	quency	fluctuat	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	1				Е	External	braking	unit nee	ded	
Protection class								IP20							
Cooling mode						For	ced air c	convecti	on cooli	ng					
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 inpu	t voltage	е				
Output Rated current (A)	275	325	350	395	435	490	545	600	680						
Overload capacity					150%	1 minut	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	ncedne	ss ≤3%	6; allow	able fre	quency	fluctuat	tion: ±5°	%	
Rated current (A)	255	290	335	378	415	466	520	580	655						
Braking unit						Ext	ernal bra	aking ur	nit need	ed					
Protection class								IP20							
Cooling mode						For	ced air c	convecti	on cooli	ng					

	Туре															
(V5/6	6/8−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
M	fotor 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
V	oltage (V)						Thre	e-phase	0 to ra	ted inpu	ıt voltag	е				
Output R	tated current (A)	3	5	7.5	10	17	24	32	46	64	71	87	115	145	175	215
0	verload capacity	1	50% 1 i	minute,	180%	10 seco	nds, 20	0% 0.5	second	, interva	al: 10 m	inutes (inverse	time lag	g feature	e)
R	ated voltage/frequency	Three/s	ingle-ph	ase 200)V/240V				Three-	phase 2	200V/24	0V; 50H	Hz/60Hz	:		
Input A	Illowable voltage range			180V	~ 260V	; Voltag	e unbal	ancedne	ess ≤3¹	%; allov	vable fre	equency	/ fluctua	ition: ±5	%	
R	Rated current (A)	3.8	5.5	8.3	12	18.5	26	35	51	70	78	95	124	156	185	230
В	raking unit				Built	in as st	andard				В	Built-in a	s option			
P	rotection class								IP20							
С	ooling mode	Self-co	ooling					Fo	rced air	convec	tion coc	oling				
(V5/6	Type 6/8−H−2T□□□G)	75	90	110	132											
M	fotor power(kW)	75	90	110	132											
V	oltage (V)						Thre	e-phase	0 to ra	ted inpu	ıt voltag	е				
output R	tated current (A)	283	346	432	520											
0	verload capacity	1	50% 1 i	minute,	180%	10 seco	nds, 20	0% 0.5	second	, interva	al: 10 m	inutes (inverse	time lag	g feature	e)
R	ated voltage/frequency						Three	e-phase	200V/2	40V; 50)Hz/60H	łz				
Input A	llowable voltage range			180V	~ 260V	; Voltag	e unbal	ancedne	ess ≤3°	%; allov	vable fre	equency	y fluctua	ition: ±5	%	
R	tated current (A)	298	365	445	530											
В	raking unit						Ex	ternal b	raking u	nit need	led					
P	rotection class								IP20							
С	ooling mode						Fo	rced air	convect	ion cool	ina					

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



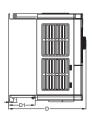
Optional Accessories

Accessor	ies name	Туре	Function description
Built-in brake u	unit	Type with "-06"	Built-in braking unit from 18.5kW to 75kW is optional and support common DC bus
Dulit-III Drake (ar iic	Type with "-26"	Built-in braking unit from 18.5kW to 75kW is optional and support external DC reactor
485 Communio	cation	Type with "-34"	E5 Series increase 485 and high speed pulse terminals
Vectorque moi	nitoring software	CD-RM01	V1.00
PG01 feedbac	k card	EX-PG01	A/B/Z Open collector input (12V)
PG02 feedbac	k card	EX-PG02	A/B/Z Differential input (5V)
PG03 feedbac	k card	EX-PG03	A/B/Z Open collector input with frequency division output (12V)
PG04 feedbac	k card	EX-PG04	A/B/Z Differential input with frequency division output (5V)
PG06 feedbac	k card	EX-PG06	U/V/W encoder input
PG07 feedbac	k card	EX-PG07	Resolver input
Injection moldi interface card		EX-PM01	Two-circuit isolation input 0-1A/0-2A/0-24V
Injection moldi interface card	ng machine	EX-PM02	Two-circuit isolation input 0-1A/0-2A
		EX-DT01	Externally expand four multi-function input terminals and three relay output terminals
Digital termina	l expansion 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 Monitori	ng card	EX-PA01	Power lacks/instantaneous power-off monitor
Phase sequen	ce detection card	EX-PA02	Three-phase input power phase sequence detection
Speed tracking	card	EX-PA03	Realize speed tracking
External powe	r rectifier bridge	EX-RF01	Control power provided by an external power supply
External capac	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
Communicatio	n adapter	EX-CA02	RS232 convert to RS485 communication adapterr
		EX-CA03	USB convert RS485 communication adapter
CANopen comm adapter card	unication	EX-CA04	Support CAN2.0A, CANopen DS301 V4.02, DS303, Ds305
		CB1-150	1.5m Keyboard extension line
Keyboard exte	nsion line	CB1-300	3.0m Keyboard extension line
0		CB2-RS232	Standard RS232 cable
Communicatio	n cables	CB3-USB	1.0m USB convert RS232 cable
Brake resistan	ce	RXHG/RXLG series	Brake resistance Annex
DC reactor		DCL series	DC Reactor
AC input react	or	ACL series	AC input Reactor Annex
AC output read		OCL series	AC output Reactor Annex
Input noise filte	er	EBK5/40 series	CE specifications Annex
Output noise fi	lter	EBL series	CE specifications Annex

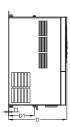
Note:If you have any requirement, please contact with manufacturer.

Product Outline, Mounting Dimension, and Weight









 $V5/V6/V8-H-2T3.7G \ and \ below \ power \ class$ $V5/V6-_{\tiny \square} \ -4T7.5G/11L,V8/E5-H-4T7.5G \ and \ below \ power \ class$

V5–H–6T15G and above power class V5/V6/V8–H–2T5.5G and above power class V5/V6– $_{\circ}$ –4T11G/15L,V8/E5–H–4T11G and above power class

Voltage	Investor to the		0	utline an	d mounti	ng dime	nsion (mn	n)		Approximate
class	Inverter type	W	Н	D	W1	H1	D1	T1	d	weight(kg)
	V□ - H - 2T0.4G			155			40.8	3		1.5
	V□-H-2T0.75G			175			60.5	4		2.2
	V□ - H - 2T1.5G	118	190	155	105	173	40.8	3	5.5	1.5
	V□ - H - 2T2.2G			175			60.5	4		2.2
	V□ - H - 2T3.7G	155	249	185	136	232	69	8	5.5	3
	V□-H-2T5.5G									
	V□-H-2T7.5G	210	337	200	150	324	107.5	2.5	7	8.5
	V□ - H - 2T11G									
	V□-H-2T15G	285	440	220	200	425	107.5	2.5	7	17
200V	V□-H-2T18.5G	200	440	220	200	423	107.5	2.5	′	17
	V□-H-2T22G	315	575	227	220	553	123.5	2.5	10	25
	V□-H-2T30G									
	V□-H-2T37G	400	615	265	270	590	123.5	3.0	10	35
	V□-H-2T45G									
	V□-H-2T55G	465	745	325	343	715	156	3.0	12	55
	V□ - H - 2T75G	403	745	323	343	713	130	3.0	12	33
	V□-H-2T90G	540	890	385	370	855	205.5	4.0	14	85
	V□ - H - 2T110G	340	090	300	310	000	205.5	4.0	14	65
	V□-H-2T132G	700	1010	385	520	977	210	4.0	14	125
	V□-□-4T0.75G/1.5L, E5-H-4T0.75G	118	190	155	105	173	40.8	3	5.5	1.5
	V□-□-4T1.5G/2.2L, E5-H-4T1.5G									
	V□-□-4T2.2G/3.7L, E5-H-4T2.2G	118	190	175	105	173	60.5	4	5.5	2.6
	V□-□-4T3.7G/5.5L, E5-H-4T3.7G									
	V□-□-4T5.5G/7.5L, E5-H-4T5.5G	155	249	185	136	232	69	8	5.5	3
400V	V□-□-4T7.5G/11L, E5-H-4T7.5G	100	243	100	130	202	03	Ü	0.0	3
	V□-□-4T11G/15L, E5-H-4T11G	210	337	200	150	324	88	2	7	8.5
	V□ - □ - 4T15G/18.5L, E5-H-4T15G	210	007	200	130	024	30	2		0.0
	V□ - □ - 4T18.5GA/22LA,E5-H-4T18.5GA									
	V□ - □ - 4T22GA/30LA,E5-H-4T22GA	289	440	220	200	425	88	2.5	7	17
	V□-□-4T30GA/37LA,E5-H-4T30GA									

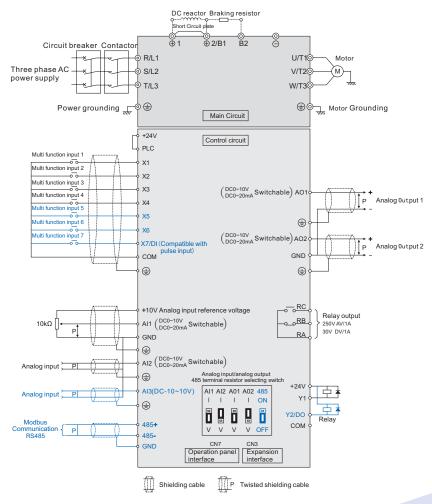


Product Outline, Mounting Dimension, and Weight

Voltage			0	utline an	d mounti	ng dimer	nsion (mn	1)		Approximate
class	Inverter type	W	Н	D	W1	H1	D1	T1	d	weight(kg)
	V□ - □ - 4T37GA/45LA,E5-H-4T37GA	040	575	040	000	550	00.5	0.5	40	0.5
	V□ - □ - 4T45GA/55LA,E5-H-4T45GA	319	575	218	220	553	90.5	2.5	10	25
	V□-□-4T55GA/75LA,E5-H-4T55GA	404	615	255	270	590	86.5	3.0	10	35
	V□-□-4T75GA/90LA, E5-H-4T75GA	404	010	200	210	390	00.5	3.0	10	33
	V□-□-4T90G/110L, V8/E5-H-4T90G	465	745	325	343	715	151.5	3.0	12	55
	V□-□-4T110G/132L, V8/E5-H-4T110G	400	740	323	343	710	101.0	0.0	12	33
	V□-□-4T132G/160L, V8/E5-H-4T132G									
400V	V□-□-4T160G/185L, V8/E5-H-4T160G	540	890	385	370	855	205.5	4.0	14	85
4000	V□-□-4T185G/200L, V8/E5-H-4T185G	340	030	303	370	000	200.0	4.0	1-7	0.5
	V□-□-4T200G/220L, V8/E5-H-4T200G									
	V□-□-4T220G/250L, V8/E5-H-4T220G									
	V□-□-4T250G/280L, V8/E5-H-4T250G	700	1010	385	520	977	210	4.0	14	125
	V□-□-4T280G/315L, V8/E5-H-4T280G									
	V□-□-4T315G/355L, V8/E5-H-4T315G									
	V□-□-4T355G/400L, V8/E5-H-4T355G									
	V□-□-4T400G/450L, V8/E5-H-4T400G	810	1358	425	520	1300	210	4.0	14	215
	V□-□-4T450G/500L, V8/E5-H-4T450G									
	V□-□-4T500G/560L, V8/E5-H-4T500G									
	V5-H-6T15G									
	V5-H-6T18.5G	285	440	220	200	425	107.5	2.5	7	17
	V5-H-6T22G	200	440	220	200	720	107.5	2.0		"
	V5-H-6T30G									
	V5-H-6T37G									
	V5-H-6T45G	315	575	227	220	553	123.5	2.5	10	25
	V5-H-6T55G									
	V5-H-6T75G	400	615	265	270	590	123.5	3.0	10	35
	V5-H-6T90G	100	0.10	200	2.0	000	120.0	0.0	10	00
	V5-H-6T110G	465	745	325	343	715	156	3.0	12	55
	V5-H-6T132G	100	, 10	020	0.10	7.10	100	0.0		00
690V	V5-H-6T160G									
0004	V5-H-6T185G	540	890	385	370	855	205.5	4.0	14	85
	V5-H-6T200G	0.0	-		0.0					
	V5-H-6T220G									
	V5-H-6T250G									
	V5-H-6T280G	700	1010	385	520	977	210	4.0	14	125
	V5-H-6T315G									
	V5-H-6T355G									
	V5-H-6T400G									
	V5-H-6T450G									
	V5-H-6T500G	810	1358	425	520	520 1300	0 210	4.0	14	215
	V5-H-6T560G									
	V5-H-6T630G									

Note:V□ indicates V5 or V6 series inverter.

Terminal Wiring



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



Functions of Main Circuit Terminal

Va -H-2T0.4G~Va -H-2T11G、V5/V6-a -4T0.75G/1.5L~V5/V6-a -4T15G/18.5L、V8/E5-H-4T0.75G~V8/E5-H-4T15G

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



 $V_0 - H - 2T15G \sim V_0 - H - 2T45G, \ V5/V6 - u - 4T18.5G/22L \sim V5/V6 - u - 4T75G/90L, \ V8/E5 - H - 4T18.5G \sim V8/E5 - H - 4T75G, \ V5 - H - 6T15G \sim V5 - H - 6T90G$

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



 $V_{\text{\tiny D}} - H - 2T15G - 06 \sim V_{\text{\tiny D}} - H - 2T45G - 06 \\ V5/V6 - _{\text{\tiny D}} - 4T18.5G/22L - 06 \\ \sim V5/V6 - _{\text{\tiny D}} - 4T75G/90L - 06 \\ \sim V8 - H - 4T75G - 06 \\ \sim V5 - H - 6T15G - 06 \\ \sim V5 - H - 6T90G - 06 \\ \text{(Internal Braking Unit Option)}$

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



 $V_{\text{\tiny D}}$ -H-2T55G, V5/V6- $_{\text{\tiny D}}$ -4T90G/110L, E5-H-4T90G, V5-H-6T110G and above class adopt the top in and bottom out wiring mode

POWER									
R/L1	S/L2	T/L3							







U/T1	V/T2	W/T3						
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
Φ2/B1,B2 or B1,B2	Connecting terminal of braking resistor
Φ2/B1, θ or Φ2, θ	DC power input terminal; DC input terminal of external braking unit
U/T1,V/T2,W/T3	Three-phase AC power output terminal
(4)	Grounding terminal PE

Note:V□ indicates V5, V6 or V8 series inverter.

Control Circuit Terminal

V5, V6 and V8 series inverter Control Circuit Terminal

+1	0 V	ΑI	11	Α	12	Al	13	G١	۱D	A	21	AC)2	G١	۱D	48	5+	48	5-		R	A	R	ιВ	R	С	
	+2	4 V	PΙ	С	CC	М	X.		Х		Х	3	Х	4	Х	5	Х	6	X7/	'DI		Y	1	Y2/	DO	CON	Л

E5 series inverter Control Circuit Terminal

ĺ	+1	0 V	AI1		AI2				GND		AO1		AO2		
		+2	4V	Ρl	_C	C	M X		(1 X		2 >		3	Х	4



Control Circuit Terminal Function

Туре	Terminal symbol	Terminal function description	Technical specification							
	485+	Positive end of 485 signal	Rate: 4800/9600/19200/38400/57600 bps							
Terminal	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)							
485	GND	Grounding end of 485	Internal isolated with COM							
Operation			Connection of communication with host computer, it is the same as terminal 485							
panel 485	CN7	485 port of operation panel	The maximum distance is 15m for the communication connection of operation panel (Adopt standard twisted shielding cable)							
	+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							
Digital	X1~X6	Multi-functional input terminals	Input specification: 24VDC,5mA; Frequency range: 0~200Hz; Voltage range: 24V±20%							
input	X7/DI	Multi-functional input or pulse input	Multi-functional input: same as X1~X6; Pulse input: 0.1Hz~50kHz; Voltage range: 24V±20%							
	COM	+24V GND	Internal isolated with COM							
	Y1	Open collector output	Voltage range: 24V±20%, maximum input current: 50mA							
Digital output	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							
A I	Al1	Analog input channel 1	0~20mA: Input impedance 500Ω, maximum input current: 30mA							
Analog input	AI2	Analog input channel 2	0~10V: Input impedance 20kΩ, maximum input voltage : 15V Resolution: 12 bits (0.025%)							
	AI3	Analog input channel 3	-10V~10V: Input impedance 20k $\Omega,$ Resolution: 12 bits (0.025%), Maximum input voltage: $\pm 15 V$							
	GND	Analog GND	Internal isolated with COM							
	AO1	Analog output channel 1	0~20mA: allowable output impedance 200~500Ω							
Analog output	AO2	Analog output channel 2	$0{\sim}10V$: allowable output impedance ${\geqslant}10k\Omega$ Output precision: 2%, resolution: 10 bits (0.1%) ,with short circuit protection function							
	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							

Excellent Performance

