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PRODUCT
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SHENZHEN INVTELECTRIC CO., LTD.

Company Profile

SHENZHEN INVITRONIC ELECTRIC CO., LTD. which was established in 2002, is a National Hi-Tech Company and the first China Drive Engineering Centre, principally engaged in the R&D, manufacturing and marketing of low, medium and high voltage inverters in the fields of electric drive and industrial control.

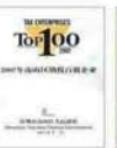
Has set up over 30 representative offices nationwide, INVT has cooperated with hundreds of Distributors at home and abroad, with its diversified users in over 50 countries and regions.

The main products includes general-purpose inverters & special-purpose inverters, Servo drive, brake unit and RBU which are broadly applied in the various industries, municipal engineering, construction material, plastic cement, oil, mechanic, chemical industry, metallurgy, textile, printing, machine tool and mining etc.

Our self-developed products cover a wide range including CHA/CHV/CHE/CHF/CHH, voltage level from 220V to 10KV and power rating from 0.4kW to 7100kW.

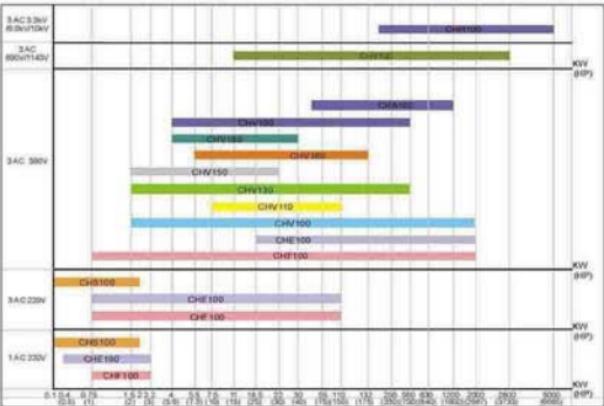
With the mastering of mature vector control technology and special Inverter control technology in various industries, as well as breakthrough of four-quadrant control technology, INVIT has been keeping ranking the top among national inverter manufacturers.

INVT always aim to be your mutual benefit partner and professional drive solution provider.



Contents

	Nu	Symbol	Meaning
CHE100 series sensorless vector control inverter (0.4~15kW)	4	V	Close loop vector control
CH100A series high performance universal inverter (0.7~200kW)	5	E	Sensorless vector control
CH100 series closed-loop vector control inverter (1.5~220kW)	6	F	V/F control, zero-torque, vector control
CH110 series energy saving inverter (7.5~110kW)	7	A	Four-quadrant
CH100A series special inverter for multi-pump system supply (0.5~132kW)	8	H	High voltage
CH100 series special inverter for elevator (0.4~20kW)	9	S	Service type
CH110 series special inverter for synchronous control (1.5~50kW)	10	2	First generation
CH100 series servo inverter (0.4~60kW)	11	0	Universal type
CH120 series four-quadrant vector control inverter (37~1200kW)	12	1	Energy saving
CH100 series high voltage frequency inverter (3.7kV~6kV/10kV~5000V·Hz)	13		
CH100 series servo drive	14		
CH115 series both drive inverter (0.7~200kW; 1.5~220kW)	15		



Features

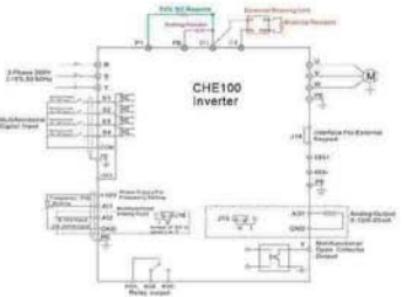
- Sensorless vector control (SVC), V/F Control.
- Achieve excellent sensorless vector control based on DSP platform.
- Static and station motor parameters auto-tuning ensure excellent vector control.
- Overload capacity: 60s with 150% of rated current; 10s with 180% of rated current.
- Starting torque: 150% of rated torque at 0.5Hz (SVC).
- Independent duct design.
- Speed adjusting range: 1:100 (SVC)
- Speed accuracy : < 0.5% of maximum speed (SVC)
- Carrier frequency: 0.5kHz~15.0kHz
- Torque control function: provide multiple torque setting source.
- PID control function.
- Multi-step speed control function: 8 steps speed can be set.
- Traverse control function.
- None-Stop when instantaneous power off.
- Speed trace function: start running motor smoothly.
- QUICK/DIG key: user defined shortcut key can be realized.
- Automatic voltage regulation (AVR) function.
- Support local and remote operation panel at same time to make commissioning more convenient.
- Offer RS-485 communication which support standard Modbus RTU and ASCII protocol.
- Up to 24 fault protections.
- Built-in braking unit (up to 15kW)



Typical Application

Textile, printing & dyeing, chemical fibers, paper making, wire-drawing, manipulator, solid warehouse, oxygen making machine, machine tools, air-compressor, ceramic machine

Wiring Diagram



Features

- Input frequency range: 47~63Hz
- Output voltage range: 0~rated input voltage
- Output frequency range: 0~400Hz
- Control mode: V/F control, Sensorless vector control
- Torque control with Sensorless vector control
- Support PNP, NPN
- Overload capacity 60s with 150% of rated current, 10s with 180% of rated current.
- Speed adjusting Range: 1:100
- Carrier frequency: 0.5kHz~15.0kHz
- Frequency inputting source: keypad, analog input, HMI, serial communication,multi-step speed, simple PLC and PID.
- PID control function.
- Simple PLC, multi-steps speed control function: 16 steps speed can be set.
- Traverse control function.
- Length and time control function
- None-Stop when instantaneous power off.
- Speed trace function: start running motor smoothly.
- QUICK/DIG Key: user defined shortcut key can be realized.
- Automatic voltage regulation function (AVR): automatically keep the output voltage stable when input voltage fluctuating.
- Offer RS-485 communication which support standard Modbus RTU
- Simple water supply control: drive 1 variable speed pump and 2 fixed speed pump.
- Drive larger variable torque load directly.
- Built-in DC resistance: up to 18.5kW to improve power factor and efficiency.
- Built-in braking unit (up to 15kW).
- Up to 23 fault protections:

 - Protection for over current, over voltage, under voltage, over temperature, phase failure, over load etc.

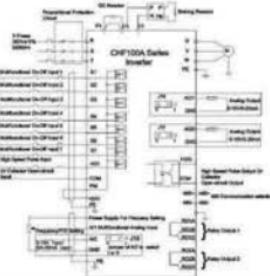
- Total 8 terminals, The terminal 8 can support HOI



Typical Application

Pump and fans, extruder, automatic production line, air conditioner, water supply, food machine, blender, packing machine, medicine machine, conveyor, blowmolding machine, oil pump, fountain.

Wiring Diagram



CHV 100 SERIES CLOSE LOOP VECTOR CONTROL FREQUENCY INVERTER/DRIVE

3 AC 220V~230V ± 15% 1.5kW~110kW
3 AC 380V~480V ± 15% 1.5kW~200kW
3 AC 660V~950V ± 15% 11kW~280kW
3 AC 1140V ± 15% 45kW~280kW

Features

- Control mode: Sensorless vector control (SVC), Vector control with PG (VC), V/F control.
- Dual-CPU control platform: 16bit DSP, current vector control algorithm, 32 bit ARM, application control.
- Static and rotation motor parameters auto-tuning ensure excellent vector control.
- Achieve high accuracy close-loop speed control and torque control.
- External LCD panel can monitor three parameters at the same time.
- Chinese/English is selectable.
- Overload capacity: 60s with 180% of rated current, 10s with 180% of rated current.
- Starting torque: 150% of rated torque at 0.5Hz (SVC); 180% of rated torque at 0.5Hz(VC).
- Speed adjusting range: 1~100 (SVC); 1~1000 (VC).
- Speed accuracy: ± 0.5% of maximum speed (SVC) × 0.02% of maximum speed (VC)
- Center frequency: 1.0Hz~10.0Hz
- Frequency reference source: keypad, analog input, HMI, serial communication, multi-step speed, simple PLC and PID. The combination of multi-modes and the switch between different mode can be realized.
- Torque control function: provide multiple torque setting source.
- PID Control Function
- Simple PLC or multi-steps speed control: 10 steps speed can be set.
- Torque control function
- Length and time control
- Offer RS485 communication which support standard modbus RTU and ASCII protocol.
- Built-in DC motor silence 12.5kW to improve power factor and efficiency.
- Built-in braking unit.
- Non-stop function while instantaneous power off.
- Speed trace function: start running motor smoothly.
- QUICK JOG function: user defined shortcut key can be realized.
- Automatic voltage regulation (AVR) automatically keep the output voltage stable when input voltage fluctuating.
- Up to 29 fault protections.
- Protection for over current, over voltage, under voltage, over temperature, phase failure, over load etc.



Typical Application

Printing machine, dyeing machine, paper machine, wind and unwind, high accuracy machine tool, cutting machine, steel rolling, metal, wire machine, drawbench, position control, zero speed servo control

Option card

Option Card	Picture	Description
CHV100-COM		Offer RS232 and RS 485 dual physical communication interface, built-in Modbus RTU and ASCII protocol
CHV100-ASYPO		Permit both push-and-pull input and open collector input, offer frequency divisor output, frequency division factor can be selected by dipswitch, comment to the encoder by soft code
CHV100-I/O		Offer more input/output terminals to enhance inverter external function, RS 485 port is available

CHV110 SERIES ENERGY SAVING CABINET

3 AC 220V~230V ± 15% 7.5kW~110kW
3 AC 380V~480V ± 15% 7.5kW~110kW

Features

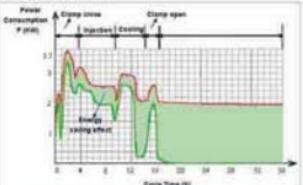
- Sensorless vector control (SVC), V/F control.
- Frequency source: compare pressure and flow signals output.
- Fast current limiting function, with an instantaneous impulse current as high as 300%.
- Overcurrent protection function with limit of output current.
- Automatic restart and recovery function.
- Integrates bypass system to ensure system work properly and do not affect production.
- Multiple signal inputs: 0~1A, 0~10V, 4~20mA, 0~20mA.
- Larger torque at low frequency.
- RS485 communication function.
- Unique PVAM optimized design for efficient operation with energy-saving efficiency as high as 25% to 60%.
- Full range protection such as phase failure, overvoltage, undervoltage and overcurrent protection, short circuit, overheat, providing better heat dissipation effect.
- Preventing electrostatic dust from causing damage to electronic components.
- Compact size dust-proof.
- Built-in DC reactor (1.5kW~75kW).
- Speed trace function start running motor smoothly.
- Strong anti-jamming capability.
- Injection molding card.



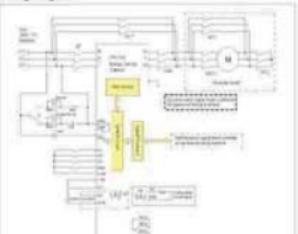
Typical Application

Injection molding machine, air compressor, air conditioner

Energy saving principle



Wiring Diagram



Model Number	Power range	Output rated current(A)	Dimension A(B)C(mm)
CHV110-0030-4	7.5	17	307*65*250
CHV110-0110-4	11	25	
CHV110-0150-4	15	32	
CHV110-0180-4	18.5	37	
CHV110-0320-4	40	45	352*649*276
CHV110-0360-4	50	50	
CHV110-0575-4	57.5	55	
CHV110-0640-4	60	59	360*935*285
CHV110-0950-4	95	115	
CHV110-0750-4	75	100	540*1050*360
CHV110-0800-4	80	118	
CHV110-1100-4	110	210	600*1170*360

invt CHV160A

SERIES SPECIAL INVERTER FOR MULTI-PUMPS WATER SUPPLY

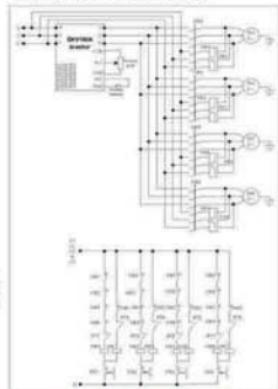
3 phase 380V~480V ±15% 5.5kW-132kW

Features

- Cylindred water supply control function;
- Can control 3 pumps without water supply card, and maximum 8 pumps with water supply card;
- Built-in check chip inside of control module with power supply to making timing pressure control more convenient;
- PID control;
- Control normal pump, divert pump and dredge pump to 8 different automatically according to pressure feedback, store specific rated moment separately;
- Energy saving function: Stop automatically when flow is smaller;
- Timing overdrive function: Prevent pump from rust, balance every pump-Motor;
- Build-in RS485 serial port, adopt standard Modbus protocol;
- Liquid level detection and control;
- LCD keypad: Parameter download and upload, English version;
- Non-stop function while instantaneous failure;
- Speed trace function: smoothly start the running motor.



Wiring diagram for four variable speed pumps



Typical Application

Water supply of fire protection,central air-conditioning system,cycle cooling water,industrial boiler,oil transportation pump,water and sewage treatment



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CHV180

SERIES SPECIAL INVERTER FOR ELEVATOR

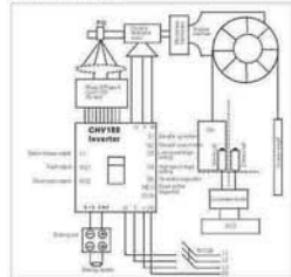
3 AC 380V~480V ±15% 4kW-30kW

Features

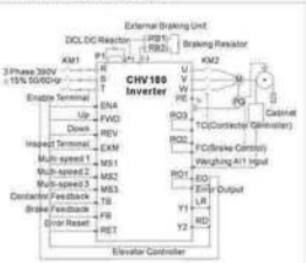
- Control structure DSP+32bit MCU.
- Maximum speed reach to 4m/s
- Two types speed control mode: multi-speed and analog speed control
- Special function for maintenance
- Extreme EPS ensure elevator emergency running
- Three times deceleration for up and down to prevent crashing to bottom and prevent overshoot
- Separated PI parameter for high speed and low speed
- Holding torque, contactor control
- Start torque compensation
- PG card synchronous PG card, asynchronous PG card
- Starting weight up function
- Emergency stop function of RBU unit
- 5 curve acceleration/deceleration function to make elevator work smoothly
- Running function: inspection running, emergency running, forced elevator running
- More than 30 kinds of protection
- Support Modbus.



Elevator Control Layout



Elevator control wiring diagram



Typical Application

Elevator lift

Option Card	Picture	Description
CHV180-SYPG		Used for asynchronous motor with incremental rotary encoder
CHV180-ASYPG		Used for synchronous motor with Sin/Cos encoder or U/V/W encoder.

Features

CHV130 Series:

- Simulate platform.
 - Multi-level speed synchronous function.
 - Speed difference air pressure sensor feedback synchronous rolling winding control.
 - Multi-driver with load balance function.
 - Constant line speed re-rolling control without external control circuit.
 - Pre-drive, tension taper rolling control function.
 - Logic terminals output warning for analog input and internal process value. Continuous annealing function.
 - Built-in wire twisting machine control function.
 - Drawbench function without PLC.
 - Built-in zero position transferring function, up/down function, on/off function, taper control and braking function module.

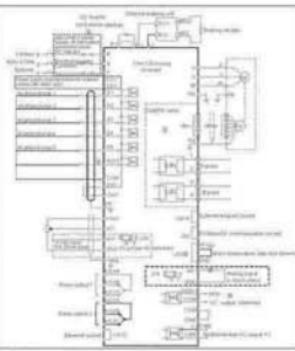


Features

- Internal brake control and monitor function.
 - Separated power supply for control circuit and power circuit.
 - Speed increasing function for light load or without load can realize faster speed for sky-hook to improve the efficiency.
 - Master-slave function for speed synchronization can realize speed equilibrium to keep two crane in the same step.
 - Master-slave function for power equilibrium make two motors balance to lift one load through one reduction gear box.
 - Flexible multi-control mode: manual, remote control, potentiometer control, grader remote control, grader manual control, communication.
 - The second motor control and switch function can decrease the system cost.
 - Support Profibus-DP and Modbus.
 - Rope slack detection function.
 - LCD parameters copy and download function to reserve setting.
 - Speed monitor, fast stop and overspeed protection.
 - Pre-execution, starting torque compensation.
 - Better close-loop vector control.
 - Sensorless vector control technology achieve 0.5% control precise.
 - Support dynamic braking and regenerative braking.
 - Percy of external ports and strong protections.



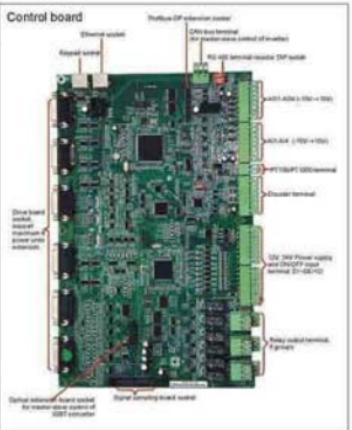
Model Number	Rated Power (W)	Rated Input Current (A)	Rated Output Current (A)	Dimensions (WxHxDmm)
CH190-280/4	4	10	9	180*250*175
CH190-040/4	4	15	13	
CH190-595/40	5.5	15	13	
CH190-795/40	7.5	20	17	
CH190-111/3/4	11	26	25	200*320*180
CH190-015/4	15	38	32	
CH190-118/4	18.5	38	37	
CH190-022/2	22	46	45	
CH190-030/2	30	62	60	240*467*215
CH190-037/2	37	78	75	
CH190-045/4	45	90	90	315*577*270
CH190-055/4	55	105	110	
CH190-075/4	75	140	150	
CH190-060/4	90	160	178	410*770*190
CH190-110/4	110	210	216	
CH190-132/2/4	132	240	250	
CH190-160/2/4	160	290	300	400*1275*380
CH190-188/2/4	188	320	340	
CH190-200/2/4	200	370	390	
CH190-210/2/4	210	410	418	750*1350*400
CH190-260/2/4	260	480	470	
CH190-380/2/4	380	500	520	
CH190-400/2/4	400	580	600	760*1470*400
CH190-315/4	315	580	600	
CH190-350/4	350	620	640	
CH190-400/4	400	670	690	1000*1950*500
CH190-500/4	500	820	860	



Chassis 3 AC 380V~440V 37kW~110kW
Cabinet 3 AC 380V~440V 132kW~1200kW

Features

- Three kinds control mode: sensorless vector control, vector control with PG, V/F control.
- Less current harmonics in the grid side, fundamental waveform power factor is close to 1 (full load).
- Sins wave regenerative braking unit to save energy and protect environment.
- Special function for lifting application: logic control when power on, brake control, pre-excitation, overspeed protection, compensation of starting torque and so on.
- Support Profibus-DP and Modbus.
- Master-slave function can realize the power equilibrium and speed synchronization.
- The second motor control and switch function can decrease the system cost.
- Double protection of system and unit, sequential control when power on, gate control and automatically parameters saving before faulty.



Model No.	Output power(kW)	Capacity(kVA)	Input current(A)	Output current(A)	Nameplate frequency(Hz)	Power port number	Power inverting cabinet	IGBT driver/inverter cabinet	IGBT driver cabinet
CHA100-220-4	200	216	320	360					
CHA100-380-4	400	432	640	760					
CHA100-550-4	600	630	960	1140					
CHA100-800-4	800	840	1280	1520					
CHA100-1000-4	1000	1000	1600	1800					
CHA100-1250-4	1250	1260	1600	1920					

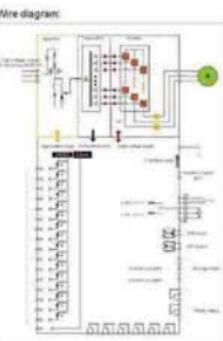
Note: 1. Power rating unit: 80~100 means IGBT converter is consist of 8 pcs C-type power unit; IGBT inverter is also consist of 8 pcs C-type power unit.

Model No.	Rated input Parameters	Rated output Parameters	Output (kW)	Capacity(kVA)	Current frequency(Hz)	Cabinet		
PA-300-4	440V AC	380V AC	440V DC	380V DC	300	216	I-4	C

3 AC 3.3kV ~ 10% 200kW~280kW
3 AC 6.6kV ~ 10% 185kW~500kW
3 AC 10kV ~ 10% 220kW~710kW

Features

- High integrated technology and completely digital control system, good anti-interference ability.
- Control system power supply redundant design.
- Multi-monitor for power units
- Power unit bypass function
- Standard RS485 terminal to communicate with DCS.
- More than 30 kinds of protection for inverter and motor.
- All parameters record, temperature and DC bus of each power unit can be monitored and calculated.
- High efficiency > 95%, power factor > 0.96, low harmonic design < 2%.
- DSP control system optimize modulated waveform to ensure perfect waveform without harmonics.
- Better energy saving function, self-regulation for voltage when detecting light load to save energy.
- Big voltage, current margin design, adopt 1700V IGBT, twice voltage margin, twice current margin.
- System and power unit bypass function, inverter can auto switch between power frequency and variable frequency, and also inverter bypass failed power unit with density.
- Speed trim function
- Wide voltage fluctuation range < 15%.
- Adopt back-in-front-out wiring for power unit.



Typical Application

Power plant, water supply, cement, iron & steel, petrochemical, oil & gas



Voltage	Model No.	Rated power(kW)	Rated capacity(kVA)	Rated current(A)	Motor power(kW)	Dimensions(Pm*Owne)	Weight(kg)
3.3kV	CHH100-200-3.3	200	200	372	45	3000*2600*1200	2750
6.6kV	CHH100-200-6.6	200	200	372	45	3000*2600*1200	2750
6.6kV	CHH100-315-6.6	315	400	500	70	3160*2600*1200	3480
6.6kV	CHH100-400-6.6	400	500	666	96	3160*2600*1200	4195
6.6kV	CHH100-500-6.6	500	600	826	125	3160*2600*1200	5160
6.6kV	CHH100-630-6.6	630	750	984	140	3160*2600*1200	6160
6.6kV	CHH100-800-6.6	800	960	1173	173	3160*2600*1200	8960
6.6kV	CHH100-1000-6.6	1000	1250	1315	215	3160*2600*1200	11375
6.6kV	CHH100-1250-6.6	1250	1562	1589	260	3160*2600*1200	14375
6.6kV	CHH100-1600-6.6	1600	1900	1900	348	3160*2600*1200	17700
6.6kV	CHH100-1600-6.6	1600	1900	1900	348	3160*2600*1200	17700
10kV	CHH100-200-10.0	200	200	393	45	3800*2600*1200	3080
10kV	CHH100-315-10.0	315	400	588	70	3800*2600*1200	4180
10kV	CHH100-400-10.0	400	500	781	96	3800*2600*1200	5180
10kV	CHH100-500-10.0	500	600	974	125	3800*2600*1200	6180
10kV	CHH100-630-10.0	630	750	1167	140	3800*2600*1200	7180
10kV	CHH100-800-10.0	800	960	1360	173	3800*2600*1200	8980
10kV	CHH100-1000-10.0	1000	1250	1553	215	3800*2600*1200	11380
10kV	CHH100-1250-10.0	1250	1562	1746	260	3800*2600*1200	14380
10kV	CHH100-1600-10.0	1600	1900	1939	348	3800*2600*1200	17780
10kV	CHH100-2000-10.0	2000	2400	2332	450	3800*2600*1200	20780
10kV	CHH100-2200-10.0	2200	2700	2525	511	3800*2600*1200	23780
10kV	CHH100-2500-10.0	2500	3125	3125	611	3800*2600*1200	27780
10kV	CHH100-2800-10.0	2800	3500	3416	710	3800*2600*1200	31780
10kV	CHH100-3000-10.0	3000	3750	3688	811	3800*2600*1200	34780
10kV	CHH100-3200-10.0	3200	4000	3960	911	3800*2600*1200	37780
10kV	CHH100-3500-10.0	3500	4375	4375	1011	3800*2600*1200	40780
10kV	CHH100-3800-10.0	3800	4750	4750	1111	3800*2600*1200	43780
10kV	CHH100-4000-10.0	4000	5000	5000	1211	3800*2600*1200	46780
10kV	CHH100-4500-10.0	4500	5625	5625	1411	3800*2600*1200	52780
10kV	CHH100-5000-10.0	5000	6250	6250	1611	3800*2600*1200	58780
10kV	CHH100-5500-10.0	5500	6875	6875	1811	3800*2600*1200	64780
10kV	CHH100-6000-10.0	6000	7500	7500	2011	3800*2600*1200	70780
10kV	CHH100-6500-10.0	6500	8125	8125	2211	3800*2600*1200	76780
10kV	CHH100-7000-10.0	7000	8750	8750	2411	3800*2600*1200	82780
10kV	CHH100-7500-10.0	7500	9375	9375	2611	3800*2600*1200	88780
10kV	CHH100-8000-10.0	8000	10000	10000	2811	3800*2600*1200	94780
10kV	CHH100-8500-10.0	8500	10625	10625	3011	3800*2600*1200	100780
10kV	CHH100-9000-10.0	9000	11250	11250	3211	3800*2600*1200	106780
10kV	CHH100-9500-10.0	9500	11875	11875	3411	3800*2600*1200	112780
10kV	CHH100-10000-10.0	10000	12500	12500	3611	3800*2600*1200	118780
10kV	CHH100-10500-10.0	10500	13125	13125	3811	3800*2600*1200	124780
10kV	CHH100-11000-10.0	11000	13750	13750	4011	3800*2600*1200	130780
10kV	CHH100-11500-10.0	11500	14375	14375	4211	3800*2600*1200	136780
10kV	CHH100-12000-10.0	12000	15000	15000	4411	3800*2600*1200	142780
10kV	CHH100-12500-10.0	12500	15625	15625	4611	3800*2600*1200	148780
10kV	CHH100-13000-10.0	13000	16250	16250	4811	3800*2600*1200	154780
10kV	CHH100-13500-10.0	13500	16875	16875	5011	3800*2600*1200	160780
10kV	CHH100-14000-10.0	14000	17500	17500	5211	3800*2600*1200	166780
10kV	CHH100-14500-10.0	14500	18125	18125	5411	3800*2600*1200	172780
10kV	CHH100-15000-10.0	15000	18750	18750	5611	3800*2600*1200	178780
10kV	CHH100-15500-10.0	15500	19375	19375	5811	3800*2600*1200	184780
10kV	CHH100-16000-10.0	16000	20000	20000	6011	3800*2600*1200	190780
10kV	CHH100-16500-10.0	16500	20625	20625	6211	3800*2600*1200	196780
10kV	CHH100-17000-10.0	17000	21250	21250	6411	3800*2600*1200	202780
10kV	CHH100-17500-10.0	17500	21875	21875	6611	3800*2600*1200	208780
10kV	CHH100-18000-10.0	18000	22500	22500	6811	3800*2600*1200	214780
10kV	CHH100-18500-10.0	18500	23125	23125	7011	3800*2600*1200	220780
10kV	CHH100-19000-10.0	19000	23750	23750	7211	3800*2600*1200	226780
10kV	CHH100-19500-10.0	19500	24375	24375	7411	3800*2600*1200	232780
10kV	CHH100-20000-10.0	20000	25000	25000	7611	3800*2600*1200	238780
10kV	CHH100-20500-10.0	20500	25625	25625	7811	3800*2600*1200	244780
10kV	CHH100-21000-10.0	21000	26250	26250	8011	3800*2600*1200	250780
10kV	CHH100-21500-10.0	21500	26875	26875	8211	3800*2600*1200	256780
10kV	CHH100-22000-10.0	22000	27500	27500	8411	3800*2600*1200	262780
10kV	CHH100-22500-10.0	22500	28125	28125	8611	3800*2600*1200	268780
10kV	CHH100-23000-10.0	23000	28750	28750	8811	3800*2600*1200	274780
10kV	CHH100-23500-10.0	23500	29375	29375	9011	3800*2600*1200	280780
10kV	CHH100-24000-10.0	24000	30000	30000	9211	3800*2600*1200	286780
10kV	CHH100-24500-10.0	24500	30625	30625	9411	3800*2600*1200	292780
10kV	CHH100-25000-10.0	25000	31250	31250	9611	3800*2600*1200	298780
10kV	CHH100-25500-10.0	25500	31875	31875	9811	3800*2600*1200	304780
10kV	CHH100-26000-10.0	26000	32500	32500	10011	3800*2600*1200	310780
10kV	CHH100-26500-10.0	26500	33125	33125	10211	3800*2600*1200	316780
10kV	CHH100-27000-10.0	27000	33750	33750	10411	3800*2600*1200	322780
10kV	CHH100-27500-10.0	27500	34375	34375	10611	3800*2600*1200	328780
10kV	CHH100-28000-10.0	28000	35000	35000	10811	3800*2600*1200	334780
10kV	CHH100-28500-10.0	28500	35625	35625	11011	3800*2600*1200	340780
10kV	CHH100-29000-10.0	29000	36250	36250	11211	3800*2600*1200	346780
10kV	CHH100-29500-10.0	29500	36875	36875	11411	3800*2600*1200	352780
10kV	CHH100-30000-10.0	30000	37500	37500	11611	3800*2600*1200	358780
10kV	CHH100-30500-10.0	30500	38125	38125	11811	3800*2600*1200	364780
10kV	CHH100-31000-10.0	31000	38750	38750	12011	3800*2600*1200	370780
10kV	CHH100-31500-10.0	31500	39375	39375	12211	3800*2600*1200	376780
10kV	CHH100-32000-10.0	32000	40000	40000	12411	3800*2600*1200	382780
10kV	CHH100-32500-10.0	32500	40625	40625	12611	3800*2600*1200	388780
10kV	CHH100-33000-10.0	33000	41250	41250	12811	3800*2600*1200	394780
10kV	CHH100-33500-10.0	33500	41875	41875	13011	3800*2600*1200	400780
10kV	CHH100-34000-10.0	34000	42500	42500	13211	3800*2600*1200	406780
10kV	CHH100-34500-10.0	34500	43125	43125	13411	3800*2600*1200	412780
10kV	CHH100-35000-10.0	35000	43750	43750	13611	3800*2600*1200	418780
10kV	CHH100-35500-10.0	35500	44375	44375	13811	3800*2600*1200	424780
10kV	CHH100-36000-10.0	36000	45000	45000	14011	3800*260	

CHH100

SERIES HIGH VOLTAGE FREQUENCY INVERTER

3 AC 3.3kV 200kW~2600kW
3 AC 5.5kV 1850kW~5200kW
3 AC 10kV 2200kW~7100kW

invt

CHS100

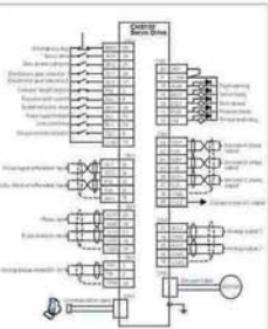
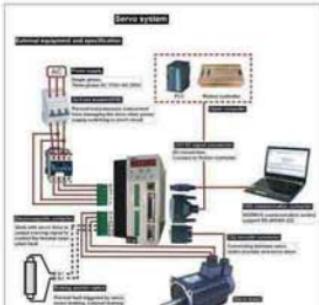
SERIES SERVO DRIVE

1 AC 220V ± 15% 0.1kW~2kW
3 AC 220V ± 15% 0.1kW~2kW

Voltage	Model No.	Rated power (kW)	Rated capacity (kVA)	Rated current (A)	Motor power (kW)	Dimension W*H*D (mm)	Weight (kg)
3.3kV	CHH100-0155-6	185	236	32	185	360*296*1200	235
3.3kV	CHH100-0200-6	200	256	33	200	360*296*1200	266
3.3kV	CHH100-0250-6	225	316	35	220	360*296*1200	303
3.3kV	CHH100-0315-6	240	376	36	240	360*296*1200	318
3.3kV	CHH100-0350-6	250	396	31	250	360*296*1200	295
3.3kV	CHH100-0315-6	315	400	36	315	360*296*1200	2905
3.3kV	CHH100-0355-6	355	440	39	355	410*296*1200	3140
3.3kV	CHH100-0400-6	400	500	46	400	410*296*1200	3210
3.3kV	CHH100-0450-6	450	560	50	450	410*296*1200	3330
3.3kV	CHH100-0500-6	500	600	56	500	410*296*1200	3450
3.3kV	CHH100-0550-6	560	696	63	560	410*296*1200	3560
3.3kV	CHH100-0630-6	630	750	70	630	430*296*1200	3790
3.3kV	CHH100-0710-6	710	880	79	710	430*296*1200	3895
3.3kV	CHH100-0800-6	800	980	86	800	430*296*1200	4050
3.3kV	CHH100-0900-6	900	1100	97	900	430*296*1200	4200
3.3kV	CHH100-1000-6	1000	1250	110	1000	410*296*1200	5000
3.3kV	CHH100-1120-6	1120	1370	123	1120	410*296*1200	5290
3.3kV	CHH100-1250-6	1250	1500	136	1250	410*296*1200	5510
3.3kV	CHH100-1400-6	1400	1700	153	1400	410*296*1200	5730
3.3kV	CHH100-1600-6	1600	1900	173	1600	510*296*1200	6110
3.3kV	CHH100-1800-6	1800	2100	186	1800	510*296*1200	6474
3.3kV	CHH100-2000-6	2000	2400	214	2000	510*296*1200	6840
3.3kV	CHH100-2240-6	2240	2700	244	2240	510*296*1200	7134
3.3kV	CHH100-2500-6	2500	3000	263	2500	510*296*1200	7400
3.3kV	CHH100-2800-6	2800	3300	303	2800	510*296*1200	7650
3.3kV	CHH100-3150-6	3150	3700	339	3150	510*296*1200	7900
3.3kV	CHH100-3550-6	3550	4500	400	3550	510*296*1200	8200
3.3kV	CHH100-4000-6	4000	5000	460	4000	510*296*1200	8400
3.3kV	CHH100-4500-6	4500	5600	505	4500	510*296*1200	8600
3.3kV	CHH100-5000-6	5000	6000	567	5000	510*296*1200	8800
3.3kV	CHH100-5600-6	5600	6200	596	5600	510*296*1200	9000
3.3kV	CHH100-6300-6	6300	7100	647	6300	510*296*1200	9200
3.3kV	CHH100-7100-6	7100	8000	686	7100	510*296*1200	9400
3.3kV	CHH100-8000-6	8000	9000	746	8000	510*296*1200	9600
3.3kV	CHH100-9000-6	9000	10000	805	9000	510*296*1200	9775
3.3kV	CHH100-10000-6	10000	12000	911	10000	510*296*1200	10125
3.3kV	CHH100-1120-10	1120	1370	79	1120	510*296*1200	5245
3.3kV	CHH100-1370-10	1370	1600	98	1370	510*296*1200	5525
3.3kV	CHH100-1400-10	1400	1700	98	1400	510*296*1200	5675
3.3kV	CHH100-1800-10	1800	2200	127	1800	630*296*1500	7300
3.3kV	CHH100-2000-10	2000	2400	141	2000	630*296*1500	7620
3.3kV	CHH100-2240-10	2240	2700	157	2240	630*296*1500	7900
3.3kV	CHH100-2500-10	2500	3000	175	2500	630*296*1500	8400
3.3kV	CHH100-2800-10	2800	3200	205	2800	630*296*1500	8600
3.3kV	CHH100-3150-10	3150	4000	220	3150	630*296*1500	9501
3.3kV	CHH100-3550-10	3550	4600	260	3550	630*296*1500	10201
3.3kV	CHH100-4000-10	4000	5000	290	4000	630*296*1500	10500
3.3kV	CHH100-4500-10	4500	5600	328	4500	630*296*1500	10800
3.3kV	CHH100-5000-10	5000	6000	360	5000	630*296*1500	11000
3.3kV	CHH100-5600-10	5600	7000	405	5600	630*296*1500	11200
3.3kV	CHH100-6300-10	6300	8000	496	6300	630*296*1500	11500
3.3kV	CHH100-7100-10	7100	9000	512	7100	630*296*1500	11800

Features

- Control methods: sine waveform PWM control with vector control, 32bit DSP+FPGA.
- Parameter setting mode: manual control parameter setting, also can be set by the communication with PC, has anti-vibration and filter functions.
- Control mode: position mode, speed mode, torque mode.
- Encoder resolution: 1/10000,10000 feedback pulses each circle.
- Pulse input pulse frequency: 5000ppr/differential, 200ppr(OC).
- Encoder feedback pulse frequency range 0~10MHz.
- Pulse amplifier range: electronics gear, A/B(A+/-65535,B=1-65535,1:50,A/B=500).
- Position accuracy: 0.07° (2 feedback pulses).
- Speed control maximum frequency response: 300MHz.
- Speed adjusting range: 1:5000.
- Speed vibration rate: < 1.0 1%.
- Communication: RS485/232, Modbus.



Model No.	Capacity (kW)	Power rating (kW)	Rated current (A)	Dimension W*H*D (mm)	Motor power rating (kW)	Rated torque (Nm)	Phase current (A)	Torque coefficient (kNm/A)	Voltage constant (V/kNm/s)	Rotor of inertia (kg m²)	
CHS100-0R1	0.9	0.1	1.3	88*169*18	100	0.32	3000	1.0	0.32	28	0.17
CHS100-0R2	0.9	0.2	1.8	88*169*18	200	0.64	3000	1.5	0.43	28	0.17
CHS100-0R4	0.9	0.4	2.8	400	1.27	3000	2.8	0.45	28	0.382	
CHS100-0RT	1.3	0.75	4.5	780	2.4	3000	3.0	0.9	48	2.4	
CHS100-1R5	1.7	1.05	5.7	98*169*18	1800	5	2500	5.0	1.0	88	12.8
CHS100-1R5	2.5	1.60	8	1500	7.7	2500	7.5	1.83	88	13.3	
CHS100-2R6	3.5	2.00	10	2000	10	2500	10	1.0	70	19.4	

RBU Regenerative braking unit

- Braking torque: 60s with 100% of rated torque (25% duty cycle), continuously run with 80% of rated torque.
- High power factor >0.9
- Overload capacity: 30s with 150% of rated current.
- Operation mode: external terminal, keyboard.
- Power light display when DC bus voltage more than 50V.

**LCD/LED Keypad**

- External keypad adopt 128x64 lattice modules.
- Three parameters indication at same time.
- Integrate parameter copy function, upload / download parameters setting for inverter.

**DBU** Dynamic braking unit, 220V~1140V, 50kW~315kW

- High braking capability brake continuously for full load when braking rate is 50%;
- Barks for five minutes for full load when braking rate is 100%;
- Wide voltage range: offer six braking threshold voltage;
- Comprehensive protection function: prevent inverter from short circuit of braking resistor.

**HCM**

- One host computer control (INVIT) multi-inverter or multi-type inverter
- Optimizes communication module, enhances communication efficiency
- Compatible, self-indentify INVIT series inverter.
- Monitor any two inverters at one time.
- Monitor speed adjustable, flexible monitor running inverter
- Able to read and inspectable inverter parameter, use analog oscilloscope monitor inverter analog parameter and ports status
- Flexible log function, trace and reserve information between host and inverter
- Flexible control function
- Open configuration



Analogue oscilloscope

Main interface with log

Port oscilloscope

Main interface with status

RBU Parameters

Input Voltage	Model No.	Rated output (kW)	DC rated value (V)	AC rated value (V)	Dimension (W×D×H)
380V	RBU-100-4	7.5	15	15	320×230×180
	RBU-111-4	11	15	15	
	RBU-131-4	15	25	25	
	RBU-151-4	18.5	35	35	
	RBU-172-4	22	37	37	
	RBU-200-4	30	51	40	
	RBU-207-4	37	64	50	
	RBU-245-4	45	77	65	327×236×220
	RBU-255-4	55	95	75	
	RBU-275-4	63	115	95	
	RBU-310-4	110	130	130	
	RBU-320-4	130	220	176	
	RBU-355-4	160	275	215	
	RBU-365-4	180	305	246	
	RBU-375-4	200	325	265	
	RBU-390-4	220	355	295	
	RBU-395-4	250	385	320	
	RBU-405-4	275	425	340	
	RBU-415-4	75	71	58	
	RBU-430-4	90	82	68	
	RBU-450-4	110	105	84	
	RBU-470-4	130	125	100	
	RBU-490-4	160	150	122	
	RBU-505-4	180	170	140	
	RBU-200-6	200	190	150	
	RBU-220-6	220	205	160	
	RBU-230-6	230	215	170	
	RBU-250-6	250	235	190	
	RBU-270-6	270	255	210	320×577×281

DBU Braking unit

	220V	380V	500V	800V	1140V
1	100%	Braking	Braking	Braking	Braking
2	100%	Braking	Braking	Braking	Braking
3	100%	Braking	Braking	Braking	Braking
4	100%	Braking	Braking	Braking	Braking
5	100%	Braking	Braking	Braking	Braking
6	100%	Braking	Braking	Braking	Braking
7	100%	Braking	Braking	Braking	Braking
8	100%	Braking	Braking	Braking	Braking
9	100%	Braking	Braking	Braking	Braking
10	100%	Braking	Braking	Braking	Braking
11	100%	Braking	Braking	Braking	Braking
12	100%	Braking	Braking	Braking	Braking
13	100%	Braking	Braking	Braking	Braking
14	100%	Braking	Braking	Braking	Braking
15	100%	Braking	Braking	Braking	Braking
16	100%	Braking	Braking	Braking	Braking
17	100%	Braking	Braking	Braking	Braking
18	100%	Braking	Braking	Braking	Braking
19	100%	Braking	Braking	Braking	Braking
20	100%	Braking	Braking	Braking	Braking
21	100%	Braking	Braking	Braking	Braking
22	100%	Braking	Braking	Braking	Braking
23	100%	Braking	Braking	Braking	Braking
24	100%	Braking	Braking	Braking	Braking
25	100%	Braking	Braking	Braking	Braking
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95	100%	Braking	Braking	Braking	Braking
96	100%	Braking	Braking	Braking	Braking
97	100%	Braking	Braking	Braking	Braking
98	100%	Braking	Braking	Braking	Braking
99	100%	Braking	Braking	Braking	Braking
100	100%	Braking	Braking	Braking	Braking

	Features	Description		
		CHV	CHE	CHF
POWER SUPPLY	Voltage	220V / 15%	220V / 15%	220V / 15%
	Frequency	50/60Hz / 45Hz/52Hz/60Hz / ±10%	50/60Hz / 45Hz/52Hz/60Hz / ±10%	50/60Hz / 45Hz/52Hz/60Hz / ±10%
	Power range	1.5~240kW	0.4~15kW	0.75~200kW
	Control method	16 bit DSP + 32 bit ARM	16 bit DSP	16 bit DSP
	Controlled type	SPWM current vector control	SPWM multi-level	SPWM multi-level
CONTROL	Carrier Frequency	1~10 kHz	0.5~5 kHz	0.5~10 kHz
	Frequency Range	0~5% of maximum speed (SVC); 0~0.2% of Maximum speed (VC)		
	Speed Accuracy	±0.5% of maximum speed (SVC); ±0.2% of Maximum speed (VC)		
	Starting torque	150% Mn at 0.5Hz (SVC) 180% Mn at 0 Hz (VC)	150% Mn at 0.5Hz (SVC) 180% Mn at 0 Hz (VC)	150% Mn at 1.5Hz
	Overload Capacity	150% rated current for 60s 180% rated current for 10s	CT1: 150% rated current for 60s CT2: 100% rated current for 10s VT1: 120% rated current for 10s VT2: 100% rated current for 60s	CT1: 150% rated current for 60s CT2: 100% rated current for 10s VT1: 120% rated current for 10s VT2: 100% rated current for 60s
	Efficiency	>95% (nominal)		
ADVANCED CONTROL	V/F Curve	Linear, User-defined, Torque stepless (1, 3, 1, 2, 2-order)	Linear, Torque stepless (1, 3, 1, 2, 2-order)	Linear, User-defined, Torque stepless (1, 3, 1, 2, 2-order)
	S Curve	Standard	N/A	N/A
	Speed Trace	Realize smooth start of rotating motor with big inertia load		
	Length control	Length controlled by preset	N/A	N/A
	Torque control	0~100% frequency traverse	0~100% frequency traverse	0~100% frequency traverse
	Multi-speed	8	8	16
	Drop-off control	0~10Hz	0~10Hz	0~10Hz
	Torque control	Standard	Standard	N/A
LCD	Character	Chinese/English selectable, download and upload parameter		N/A
	Resolution	0.01Hz (Digital)		
	Maximum frequency	0.1% (analogue)		
PERFORMANCE	Speed control	Speed range: 1~1000 Resolution: 0.01Hz (Digital) Maximum frequency: 0.1% (analogue)		
	Vector control with PG	Speed range: 1~1000 Resolution: 0.01Hz (Digital) Maximum frequency: 0.1% (analogue)		
INPUTS	Analog	2 channels (0~10V/0~20mA), 2 channels extensible	2 channels (0~10V/0~20mA)	2 channels (0~10V/0~20mA)
	Digital	8 channels (1 HDI), 4 channels extensible	4 channels	8 channels (1 HDI)
OUTPUTS	Analog	1 channel(0~2~20mA or 0~2~10V) 1 channel extensible	1 channel(0~2~20mA or 0~2~10V) 1 channel extensible	1 channel(0~2~20mA or 0~2~10V)
	Digital	1 channel	1 channel	1 channel
	Relay	2 channels, 1 channel extensible	1 channel	2 channels (1~2.3W only)
COMMUNICATION	Serial Interface	RS232 or RS485	RS485	RS485
	*Field BUS Networks			Profibus DP Modbus RTU
	SAFETY	IGBT phase fault, Overcurrent, Overvoltage, Undervoltage, Overload, Overheat, External fault, etc		
	ENVIRONMENT	Temperature: Operation -30 ~ 40°C, Storage -30 ~ 60°C Humidity: <95%, no condensation allowed		
	CERTIFICATE	CE (EUROPE)	Dry contact or Dry contact or CF	CE

* CT: Constant torque application, VT: Variable torque application

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CH-100- <input checked="" type="checkbox"/> G-S2	0.84	0.97	1.19	2.92
Power rating	HP	0.5	1	2
KW	0.4	0.75	1.5	2.2
Current CT(A)	2.3	4.5	7	10
Weight kg	1.5	2.5		
Dimension W/H/Dmm	1171x140x155	1407x180x120		

CH-100- <input checked="" type="checkbox"/> G-2	0.87	1.15	2.92	0.04	5.85	7.95	0.11	0.15	0.18	0.22	0.30	0.37	0.45	0.55	0.65	0.75	0.90	1.10	1.32	1.59	1.85
Power rating	HP	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	175	215	250
KW	0.8	1.15	2.2	4.0	5.5	7.5	11.0	15.0	18.5	22.0	30.0	37.0	45.0	55.0	75.0	110.0	150.0	175.0	215.0	250.0	285.0
Current CT(A)	4.5	7	10	16	20	30	42	55	70	80	110	130	160	200							
Weight kg	2.5	5	9	9	9	9	29	30	40												
Dimension W/H/Dmm	1407x180x120	1602x250x160	230x300x180	290x467x215	319x577x279																

CH-100- <input checked="" type="checkbox"/> G- <input checked="" type="checkbox"/> P-4	0.87	1.15	2.92	0.04	5.85	7.95	0.11	0.15	0.18	0.22	0.30	0.37	0.45	0.55	0.65	0.75	0.90	1.10	1.32	1.59	1.85
Power rating	HP	1	2	3	5	7.5	10	15	20	25	30	40	50	60	75	100	120	150	175	215	250
KW	0.8	1.15	2.2	4.0	5.5	7.5	11.0	15.0	18.5	22.0	30.0	37.0	45.0	55.0	75.0	110.0	150.0	175.0	215.0	250.0	285.0
Current CT(A)	2.5	3.7	5	9	13	17	25	32	37	45	60	75	90	110	150	170	210	250	300	340	380
Weight kg	2.5	5	8	8	8	8	26	45	82												
Dimension W/H/Dmm	1407x180x120	1602x250x160	230x300x180	290x467x215	319x577x279																

CH-100- <input checked="" type="checkbox"/> G- <input checked="" type="checkbox"/> P-4	200	220	250	280	315	350	400	500	560	630	
Power rating	HP	200	220	250	280	315	350	400	500	560	630
KW	200	220	250	280	315	350	400	500	560	630	
Current CT(A)	380	415	470	520	600	640	800	860	950	1100	
V/I/A	415	470	520	600	640						
Weight kg	415	470	520	600	640						
Dimension W/H/Dmm	750x1616x400	1505x1821x400									

CH-100- <input checked="" type="checkbox"/> G- <input checked="" type="checkbox"/> P-4	200	220	250	280	315	350	400	500	560	630	
Power rating	HP	20	30	40	50	60	75	100	120	150	175
KW	20	30	40	50	60	75	100	120	150	175	215
Current CT(A)	20	28	35	45	52	63	86	98	121	150	175
V/I/A	20	28	35	45	52	63	86	98	121	150	175
Weight kg	20	28	35	45	52	63	86	98	121	150	175
Dimension W/H/Dmm	290x467x215	319x577x279	378x577x337	407x753x300	407x1400x391	750x1570x402	1505x1821x400				

CH-100- <input checked="" type="checkbox"/> G-12	0.97	0.45	0.55	0.75	0.90	1.10	1.32	1.60	1.85	2.00	
Power rating	HP	50	70	95	100	120	150	175	215	250	300
KW	37	45	55	75	90	110	132	160	185	200	250
Current CT(A)	25	31	38	52	58	73	86	104	115	132	144
V/I/A	20	28	35	45	52	63	86	98	121	150	175
Weight kg	20	28	35	45	52	63	86	98	121	150	175
Dimension W/H/Dmm	570x1300x350		800x1750x440		1200x2050x800	1400x2000x1000					
Explosion proof	590x473x198		600x350x210		800x1200x300	1100x900x300					

Power	DC Reactor		Input reactor		Output reactor		Input filter		Output filter		Braking Unit		Braking Resistor	
	Model number	Specification	Model number	Specification	Model number	Specification	Model number	Specification	Model number	Specification	Model number	Specification	Model number	Specification
0.4kW/1AC 220V	DCL-003-E10H	3A@80Hz											NF241830	
0.7kW/1AC 220V	DCL-003-E10H	3A@80Hz											NF241861	
1.5kW/1AC 220V	DCL-003-E10H	6A11mH											NF241861	
2.0kW/1AC 220V	DCL-005-E20H	6A11mH											NF241830	
0.75kW 380V	DCL-005-E10H	3A@80Hz	ACL-003-E10H	2A@7mH	OCL-003-B10C	2A@2mH	HF-305		NF-305				1*300x175V	
1.5kW 380V	DCL-005-E10H	6A11mH	ACL-005-E10H	5A@3mH	OCL-005-B10C	5A@1.5mH	HF-305		NF-305				1*400x230V	
2.2kW 380V	DCL-005-E10H	6A11mH	ACL-007-E10H	7A@2.5mH	OCL-007-B10C	7A@1.5mH	HF-310		NF-310				1*500x250V	
4kW 380V	DCL-010-E10H	12A@80Hz	ACL-010-E10H	15A@1.5mH	OCL-010-B10C	15A@0.8mH	HF-310		NF-310				1*800x280V	
5.5kW 380V	DCL-010-E10H	25A@80Hz	ACL-010-E10H	30A@1.5mH	OCL-010-B10C	30A@0.8mH	HF-310		NF-310				1*1000x310V	
7.5kW 380V	DCL-010-E10H	32A@80Hz	ACL-010-E10H	35A@1.5mH	OCL-010-B10C	35A@0.8mH	HF-310		NF-310				1*1200x340V	
11kW 380V	DCL-010-E10H	53A@80Hz	ACL-010-E10H	50A@1.5mH	OCL-010-B10C	50A@0.8mH	HF-310		NF-310				1*1400x360V	
15kW 380V	DCL-013-E10H	73A@80Hz	ACL-013-E10H	80A@1.5mH	OCL-013-B10C	80A@0.8mH	HF-310		NF-310				1*1600x380V	
18.5kW 380V	DCL-016-E10H	10A11.3mH	ACL-016-E10H	10A11.3mH	OCL-016-B10C	10A11.3mH	HF-310		NF-310				1*1800x400V	
35kW 380V	DCL-018-E10H	18A11.3mH	ACL-018-E10H	18A11.3mH	OCL-018-B10C	18A11.3mH	HF-310		NF-310				1*2000x420V	
55kW 380V	DCL-020-E10H	30A11.3mH	ACL-020-E10H	30A11.3mH	OCL-020-B10C	30A11.3mH	HF-310		NF-310				1*2200x440V	
75kW 380V	DCL-020-E10H	40A11.3mH	ACL-020-E10H	40A11.3mH	OCL-020-B10C	40A11.3mH	HF-310		NF-310				1*2400x460V	
100kW 380V	DCL-020-E10H	50A11.3mH	ACL-020-E10H	50A11.3mH	OCL-020-B10C	50A11.3mH	HF-310		NF-310				1*2600x480V	
132kW 380V	DCL-020-E10H	60A11.3mH	ACL-020-E10H	60A11.3mH	OCL-020-B10C	60A11.3mH	HF-310		NF-310				1*2800x500V	
160kW 380V	DCL-020-E10H	80A11.3mH	ACL-020-E10H	80A11.3mH	OCL-020-B10C	80A11.3mH	HF-310		NF-310				1*3000x520V	
185kW 380V	DCL-020-E10H	100A11.3mH	ACL-020-E10H	100A11.3mH	OCL-020-B10C	100A11.3mH	HF-310		NF-310				1*3200x540V	
200kW 380V	DCL-020-E10H	120A11.3mH	ACL-020-E10H	120A11.3mH	OCL-020-B10C	120A11.3mH	HF-310		NF-310				1*3400x560V	
230kW 380V	DCL-020-E10H	140A11.3mH	ACL-020-E10H	140A11.3mH	OCL-020-B10C	140A11.3mH	HF-310		NF-310				1*3600x580V	
250kW 380V	DCL-020-E10H	160A11.3mH	ACL-020-E10H	160A11.3mH	OCL-020-B10C	160A11.3mH	HF-310		NF-310				1*3800x600V	
280kW 380V	DCL-020-E10H	180A11.3mH	ACL-020-E10H	180A11.3mH	OCL-020-B10C	180A11.3mH	HF-310		NF-310				1*4000x620V	
315kW 380V	DCL-020-E10H	200A11.3mH	ACL-020-E10H	200A11.3mH	OCL-020-B10C	200A11.3mH	HF-310		NF-310				1*4200x640V	
350kW 380V	DCL-020-E10H	220A11.3mH	ACL-020-E10H	220A11.3mH	OCL-020-B10C	220A11.3mH	HF-310		NF-310				1*4400x660V	
380kW 380V	DCL-020-E10H	240A11.3mH	ACL-020-E10H	240A11.3mH	OCL-020-B10C	240A11.3mH	HF-310		NF-310				1*4600x680V	
400kW 380V	DCL-020-E10H	260A11.3mH	ACL-020-E10H	260A11.3mH	OCL-020-B10C	260A11.3mH	HF-310		NF-310				1*4800x700V	
500kW 380V	DCL-020-E10H	300A11.3mH	ACL-020-E10H	300A11.3mH	OCL-020-B10C	300A11.3mH	HF-310		NF-310				1*5000x720V	
550kW 380V	DCL-020-E10H	320A11.3mH	ACL-020-E10H	320A11.3mH	OCL-020-B10C	320A11.3mH	HF-310		NF-310				1*5200x740V	
600kW 380V	DCL-020-E10H	340A11.3mH	ACL-020-E10H	340A11.3mH	OCL-020-B10C	340A11.3mH	HF-310		NF-310				1*5400x760V	
650kW 380V	DCL-020-E10H	360A11.3mH	ACL-020-E10H	360A11.3mH	OCL-020-B10C	360A11.3mH	HF-310		NF-310				1*5600x780V	
700kW 380V	DCL-020-E10H													