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Hope530

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series high-performance vector control inverter

Hope Senlan Science and Technology Holding Corp.,Ltd.

www.slanvert.com

www.chinavvf.com



website



Wechat

Add: No. 1599, Section 2, 2nd Airport Road, XiHangGang, Shuangliu District Chengdu Sichuan P.R. China

Service Hot-line: 400-619-6968

E-mail: info@dlhope.com

Hope Senlan Science and Technology Holding Corp.,Ltd.

COMPANY INFO



Hope Senlan Science & Technology Corp., Ltd. is a national key high-tech enterprise dedicated to the research and development of energy conservation, environment protection, drive control, new energy, intelligent equipment and air purification system, and the design, development, production, sale and service of related products. It is a leading enterprise specialized in transmission control technology research in China. It is a well-known industrial automation control system equipment R&D and manufacturing base in China.

Since its establishment, the Company has adhered to the "science and technology-oriented" concept, implemented the brand strategy, and created a brand path that features "brand created by science and technology, improved by quality, and popularized by service". The Company has passed the ISO 9001:2015 international quality system certification, ISO 14001:2015 environmental management system certification, ISO 45001:2018 occupational health and safety management system certification, and intellectual property management system certification, fully implemented ERP information management, owned an independent intellectual property system composed of more than 100 patents and proprietary technologies, and developed SB70, HOPE800, Hope530, Hope130, SBH, and VFPS series drive control products and industrial automation products such as special power supplies, photovoltaic inverters, new energy vehicles and intelligent equipment (including robots) on this basis. With strong professional system integration capabilities, the Company customizes integrated solutions for its customers as per different requirements on industrial customer segmentation. The Company's drive control products have won lots of honors, such as Gold Medal of the Fourth China Science & Technology Exposition and Gold Medal of China Fair of Inventions & Technologies, been listed in the National Torch Program Project, National Innovation Fund Project and National Key & New Product Project, and obtained the European CE certification, American UL certification and Russian EAC certification. Our products are widely applied in many fields, such as metallurgy, machinery, building materials, chemical industry, petroleum, biochemistry, pharmacy, municipal works, electric power, light industry, equipment manufacturing, military work, etc., which bring great economic and social benefits. The Company has, for that matter, been recognized as the "2018 Chengdu 100 Key New Economic Cultivation Enterprises" by the Chengdu New Economic Development Commission.

With rapid development over the past two decades, the company now has a strong marketing and service network covering China, Asia, Europe and America, providing high-quality products and services for its customers. At present, the company ranks the top in terms of sales volume, market share and technical level in the electrical automation industry. In 2007, the company obtained the title "Chinese Famous Brand" granted by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China. In 2005~2012, the company's drive control products were chosen as "Domestic Well-known Inverter in China" by Chinese Association of Automation for seven years in a row. In 2008, 2009, 2011, 2013, 2014, 2016, 2019 and 2021, the company was awarded "the Most Influential Brand in China Electrical Appliance Industry" by China Electrical Equipment Industrial Association. In December 2013, the registered trademark "Hope Senlan" was identified as "Chinese Well-known Trademarks" by the SAIC. In April 2015, Hope Senlan was respectively awarded as the "Satisfactory Benchmarking Enterprise of the Users of Chinese Electrical Appliance Industry" and the "Leading Brand in Chinese Electrical Appliance Industry" respectively by China Electrical Equipment Industrial Association. In April 2016, the company's "Integrated Solution for Variable Frequency Drive of Extra-long Belt Conveyor" won the title "Top Ten Most Influential Automation Engineering Projects of 2015". In May 2016, Hope Senlan's SB200, SB70, HOPE800 and EPS power supply series were listed in the "2016 Chengdu Famous and Excellent Rail Transit Product Catalog". In March 2017, Hope Senlan was awarded the product title "Sichuan Famous Brand" issued by the People's Government of Sichuan Province. In April 2017, Hope Senlan won the "Sichuan Provincial Well-known Trademark" issued by Sichuan Provincial Administration for Industry and Commerce; Hope Senlan's "Integration Solution for Frequency Conversion Renovation of Feed Pump of Large-scale Thermal Power Generating Boiler" was awarded as the "2016 Top Ten Most Valuable Solutions"; and the company's "Intelligent Port VFPS Series Ship Shore-based Power Supply Solution" is awarded as "2016 Top Ten Most Influential Engineering Projects". In December 2017, Hope Senlan won the "Chengdu Shuangliu District Government Quality Award" issued by the government of Shuangliu District, Chengdu and was awarded the title "Sichuan Provincial Site Management Star Rating Five-star Site" issued by the Sichuan Association for Quality. It participated as a major member in the preparation and amendment of the national standards and IEC standards for adjustable speed electrical drive systems. In 2014, 2019 and 2020, the company was chosen as "Advanced Standardization Work Unit" by the National Technical Committee on Variable Frequency Regulating Speed Equipment of Standardization Administration of China. In 2014-2022, the company was awarded as "China's Top 10 Automation Companies of the Year" by the Chinese Association of Automation. On July 19, 2021, Hope Senlan was listed in the third batch of "Little Giant" enterprises featuring expertise, precision, specialty, and innovation of the Ministry of Industry and Information Technology. In April 2022, the Jiangsu Jintan Salt Cave Compressed Air Energy Storage Project was awarded the "2022 Most Influential Engineering Project".

Adhering to the business philosophy of "excellence without borders, hope infinite", and looking into the future, the company's development goal is to become the world's most leading-edge R&D and manufacturing base for the industrial automation control system, develop Hope Senlan into an internationally renowned brand, and become an internationally leading enterprise in the fields of energy conservation, environment protection, drive control, new energy and intelligent equipment!

Qualification List

- UL Certificate
- ISO9001 international quality system certified
- ISO14001 environmental management system certified
- ISO45001 occupational health and safety management system
- Russian EAC certification
- EU CE certified



CERTIFICATE OF PARTICIPATION
Issued by
UL, CCIC on behalf of
UL

HOPE SENLAN SCIENCE AND TECHNOLOGY HOLDING CORP., LTD
No.1599, Konggang Erlu, Southwest Airport Economic Development
Chengdu, 610207, China
has been assessed and found eligible to participate in
UL
WITNESS TEST DATA PROGRAM

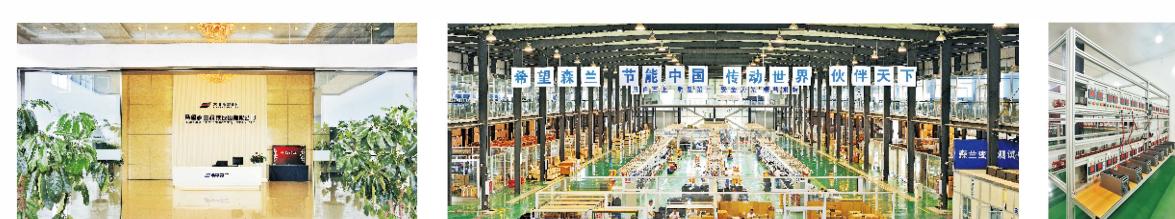
Merry Yao
Merry Yao
Engineering Manager
UL CCIC

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Higher quality

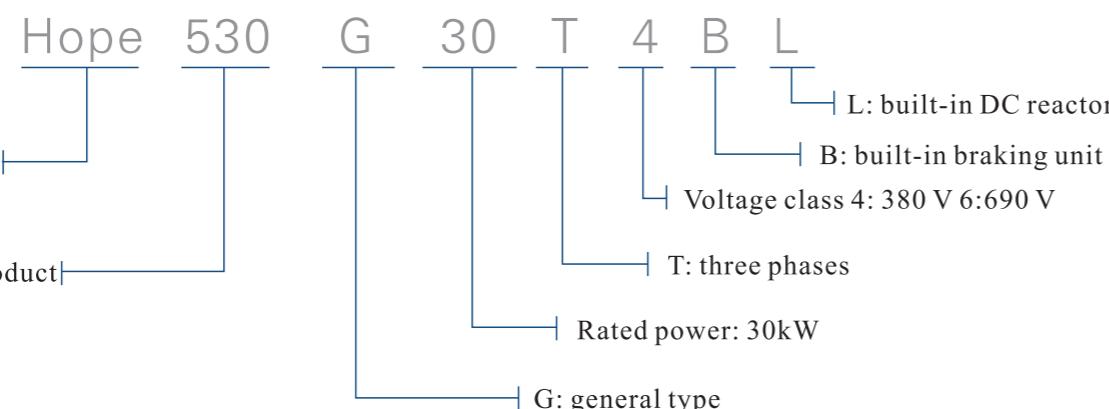
Better service

More cost effective

User Experience Oriented



Naming Rules for Products



Common Technical Specification

	Items	Item Description
Input	Rated voltage, frequency	3phase 380V(-15%)~440V(+10%), 520V(-15%)~690V(+10%), 50/60Hz
	Allowable range	Voltage fluctuating range: $\pm 15\%$; voltage unbalance: $< 3\%$; frequency: 47Hz~63Hz
Output	Output voltage	Three-phase, 0V~input voltage, deviation $< 5\%$
	Output frequency range	V/F control: 0.00Hz~400.00Hz; vector control: 0.00Hz~200.00Hz
Basic specifications	Motor control mode	Without PGV/F control, with PGV/F control, without PG vector control, with PG vector control, V/F separation control
	Steady-state speed precision	Without PG vector control: $\pm 0.5\%$; with PG vector control: $\pm 0.05\%$
Basic specifications	Starting torque	When frequency is 0.50Hz, the starting torque is $\geq 150\%$ of rated torque
	Overload capacity	150% rated current for 1min, 180% rated current for 15s, 200% rated current for 2s
Basic specifications	Frequency resolution	Digital setting: 0.01Hz; simulation setting: 0.1% of the maximum frequency
	Output frequency accuracy	Simulation setting: $\pm 0.2\%$ maximum frequency ($25 \pm 10^\circ\text{C}$) ; digital setting: 0.01Hz ($-10 \sim +40^\circ\text{C}$)
Basic specifications	Run command channel	Operation panel setting, control terminal setting, communication setting, switchable via terminal
	Frequency setting channel	Operation panel, communication, UP/DOWN regulated value, A1~A14, PFI, arithmetic unit
Basic specifications	Auxiliary frequency setting	For flexible auxiliary frequency trim and setting frequency synthesis
	Torque boost	Automatic torque boost; manual torque boost
Basic specifications	V/F curve	Users can define V/F curve, linear V/F curve and 5 reduction torque characteristic curves
	Acceleration & deceleration methods	Linear acceleration & deceleration, S curve acceleration & deceleration
Basic specifications	Jog	Jog frequency range: 0.10~50.00Hz; jog acceleration & deceleration time: 0.1s~60.0s
	Automatic energy-saving operation	Automatically optimize V/F curve according to load condition for automatic energy-saving operation
Basic specifications	Automatic voltage regulation (AVR)	When grid voltage changes within a certain range, automatically maintain a constant output voltage
	Automatic carrier regulation	Automatically regulate carrier frequency according to load characteristic and environment temperature
Basic specifications	Random PWM	Regulate motor timbre when operating
	Droop control	Applicable to the condition when several inverters drive the same load
Basic specifications	Instantaneous stop processing	When powering down instantaneously, the equipment can continue operating via busbar voltage control
	Dynamic braking capacity	Built-in braking unit
Basic specifications	DC braking capacity	Braking time: 0.0~60.0S, braking current: 0.0%~100.0% of rated current
	PFI	Maximum input frequency: 50kHz
Basic specifications	PFO	Output of 0Hz~50kHz collector open ended pulse square signal is programmable
	Analog input	Input of 2-path analog signal can select voltage mode or current mode frequency inverter via positive or negative input, supporting 2-circuit analog input expansion
Basic specifications	Analog output	Output of 2-path analog signal can respectively select 0/4mA~20mA or 0/2V~10V, programmable
	Digital input	5-path source-drain type selectable multi-functional digital input, supporting digital input extension
Basic specifications	Digital output	2-path multi-functional digital output; output of 2-path multi-functional relay, supporting digital output extension
	Communication	Built-in RS485 communication interface, supporting Modbus protocol (RTU, TCP), USS instruction, PROFIBus-DP protocol, PROFINET protocol, etc.

Items	Item Description
Features	Process PID Two groups of PID parameters; various modification modes; with free PID function; with Sleep Mode
	Multi-mode PLC User can set as many as 8 groups of PLC operation mode parameters, and the single mode PLC can reach 48 segments; it can select mode via terminal; PLC state is storable when powering down
	Multistage speed method Encoding selection, direct selection, overlap selection and number selection method
	User defined menus Thirty user parameters can be defined
	Modification parameter display Support the parameter display that is different from ex-factory value
	Torque control function Control torque/speed via switching terminals, torque setting methods
	Zero servo and position control function For performing zero-speed position locking, accurate positioning and position control
	High-speed increment and decrement counter For synchronous control of position, production counting, counting shutdown and clear positioning control
	High-speed meter counter For fixed-length shutdown, length indication
	Spinning pendulum frequency function For uniform winding displacement of spinning winding
	Programmable unit Comparator, logical unit, trigger, arithmetic unit, filter, multiway switch, timer
	Timing watt hour meter function Facilitate adjusting to the best energy conservation scheme
	Protection Over-current, over-voltage, under-voltage, input/output phase loss, output short circuit, overheat, motor overload, external failure, lost connection of analog input, stall prevention, etc.
Optional	Digital I/O expansion board, encoder interface board, analog input expansion board, I/O reactor, electric magnetic interference filter, Profibus-DP module, PROFINET module, Chinese/English LCD panel, operation panel mounting box, operation panel extension cable, RS485 communication module, etc.
	Application site At an elevation below 1,000m, indoor, free from direct sunlight, dust, corrosive gas, combustible gas, oil mist, water vapor, water drop, and salt mist, etc.
Environment	Operating ambient temperature/humidity -10°C~+50°C/20%~90%RH, without condensation of water droplets. When the ambient temperature is between 40-50°C, it needs to be derated for use, by 1.5% for every 1°C increase in ambient temperature
	Storage temperature -20°C ~ +60°C
	Vibration <5.9m/s ² (0.6g)
Structure	Degree of protection Ip20 (up to IP40 for 11kW~37kW, 380V models with shield)
	Cooling mode Forced cooling, with control fan

Product Series Specifications

See the following table for rated value of Hope530G series inverter:

380V:

Inverter model	Rated capacity (kVA)	Rated output current (A)	Adaptive motor(kW)	Inverter model	Rated capacity (kVA)	Rated output current (A)	Adaptive motor(kW)
Hope530G0.75T4B*	1.6	2.5	0.75	Hope530G55T4**	74	112	55
Hope530G1.5T4B*	2.4	3.7	1.5	Hope530G75T4**	99	150	75
Hope530G2.2T4B*	3.6	5.5	2.2	Hope530G90T4*L	116	176	90
Hope530G4T4B*	6.4	9.7	4	Hope530G110T4L	138	210	110
Hope530G5.5T4B*	8.5	13	5.5	Hope530G132T4L	167	253	132
Hope530G7.5T4B*	12	18	7.5	Hope530G160T4L	200	304	160
Hope530G11T4B*	16	24	11	Hope530G200T4L	248	377	200
Hope530G15T4B*	20	30	15	Hope530G220T4L	273	415	220
Hope530G18.5T4B*	25	38	18.5	Hope530G250T4L	310	475	250
Hope530G22T4B*	30	45	22	Hope530G280T4L	342	520	280
Hope530G30T4**	40	60	30	Hope530G315T4L	389	590	315
Hope530G37T4**	49	75	37	Hope530G375T4L	460	705	375
Hope530G45T4**	60	91	45	-	-	-	-

Note 1: The last two characters in the inverter model are default and indicated by **. If the first ** changes to letter B, it refers to built-in braking unit, and if the second ** changes to letter L, it refers to built-in DC reactor.

Note 2: 22kW and below models are provided with built-in braking unit, which is not optional, and 90kW and above models are provided with built-in DC reactor which is not also optional.

200kW and above models are not provided with built-in braking unit.

690V:

Inverter model	Rated capacity (kVA)	Rated output current (A)	Adaptive motor(kW)	Inverter model	Rated capacity (kVA)	Rated output current (A)	Adaptive motor(kW)
Hope530G18.5T6*L	25	22	18.5	Hope530G132T6L	176	148	132
Hope530G22T6*L	29	25	22	Hope530G160T6L	195	171	160
Hope530G30T6*L	38	33	30	Hope530G200T6L	240	210	200
Hope530G37T6*L	51	45	37	Hope530G220T6L	274	240	220
Hope530G45T6*L	62	54	45	Hope530G250T6L	328	287	250
Hope530G55T6*L	74	65	55	Hope530G280T6L	360	315	280
Hope530G75T6*L	103	86	75	Hope530G315T6L	406	355	315
Hope530G90T6L	116	102	90	Hope530G375T6L	440	385	375
Hope530G110T6L	138	122	110	—	—	—	—

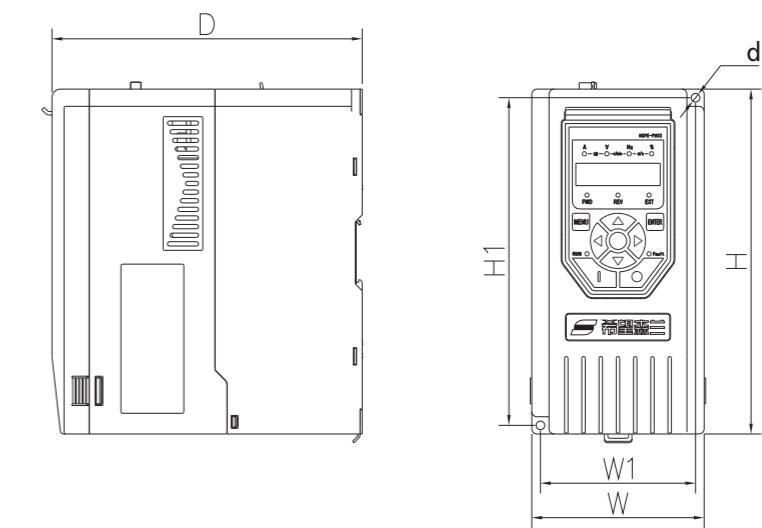
Note 1: The penultimate character in the inverter model defaults to **; if ** changes to the letter B, it indicates the built-in braking unit.

Note 2: 18.5kW~75kW models are equipped with built-in DC reactors and optional built-in braking units.

90kW and above models are equipped with built-in DC reactors and no built-in braking units.

Installation dimensions, weight and outline drawing of Hope530G0.75T4~Hope530G4T4 models:

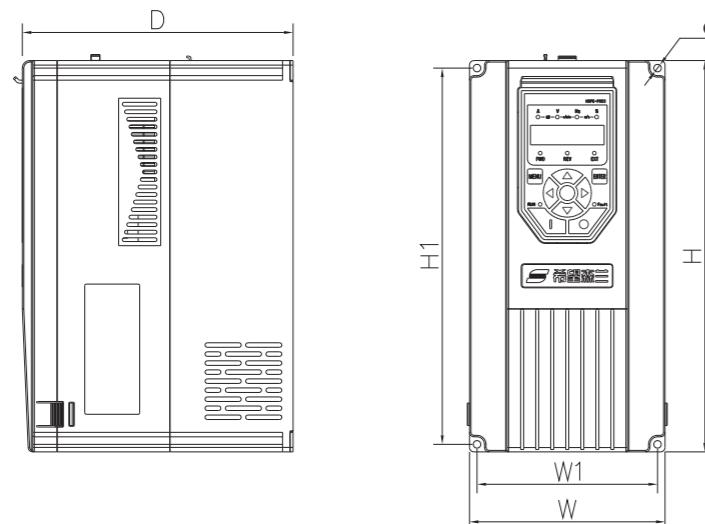
Inverter model	W(mm)	W1(mm)	H(mm)	H1(mm)	D(mm)	d(mm)	Weight without reactor (kg)	Weight with reactor (kg)
Hope530G0.75T4B*	100	90	200	190	180	5	1.8	2.1
Hope530G1.5T4B*	100	90	200	190	180	5	1.8	2.1
Hope530G2.2T4B*	100	90	200	190	180	5	1.8	2.1
Hope530G4T4B*	100	90	200	190	180	5	1.8	2.1



The outline drawing of the model with plastic case is as follows:

Installation dimensions, weight and outline drawing of Hope530G5.5T4~Hope530G7.5T4 models:

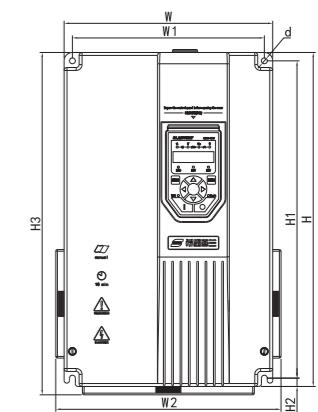
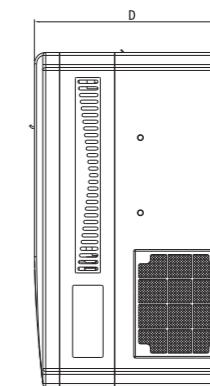
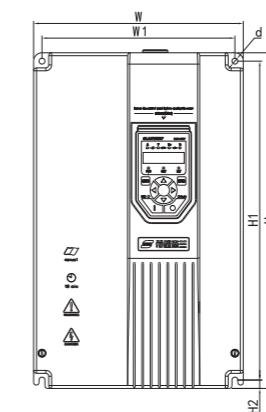
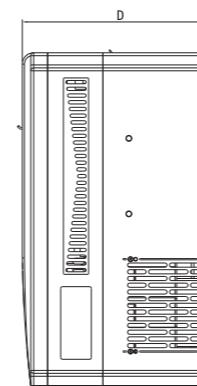
Inverter model	W(mm)	W1(mm)	H(mm)	H1(mm)	D(mm)	d(mm)	Weight without reactor (kg)	Weight with reactor (kg)
Hope530G5.5T4B*	130	120	260	250	180	5	3.4	3.7
Hope530G7.5T4B*	130	120	260	250	180	5	3.4	3.7



Installation dimensions, weight and outline drawing of Hope530G11T4~Hope530G37T4 models:

Inverter model	W(mm)	W1(mm)	W2(mm)	H(mm)	H1(mm)	H2(mm)	H3(mm)	D(mm)	d(mm)	Weight without reactor(kg)	Weight with reactor(kg)
Hope530G11T4B*	170	160	190	300	290	5	310	192	5	5.2	5.7
Hope530G15T4B*	170	160	190	300	290	5	310	192	5	5.2	5.7
Hope530G18.5T4B*	208	195	230	352	337	5	360	203	6	7.6	10.5
Hope530G22T4B*	208	195	230	352	337	5	360	203	6	7.7	11
Hope530G30T4**	248	230	270	400	382	10	410	234	7	12.5	18.5
Hope530G37T4**	248	230	270	400	382	10	410	234	7	12.5	19.5

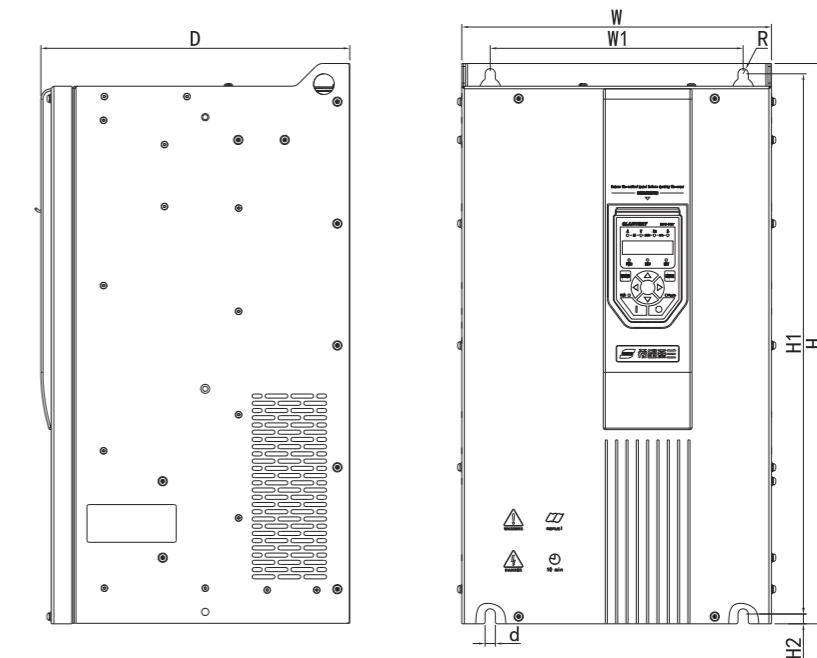
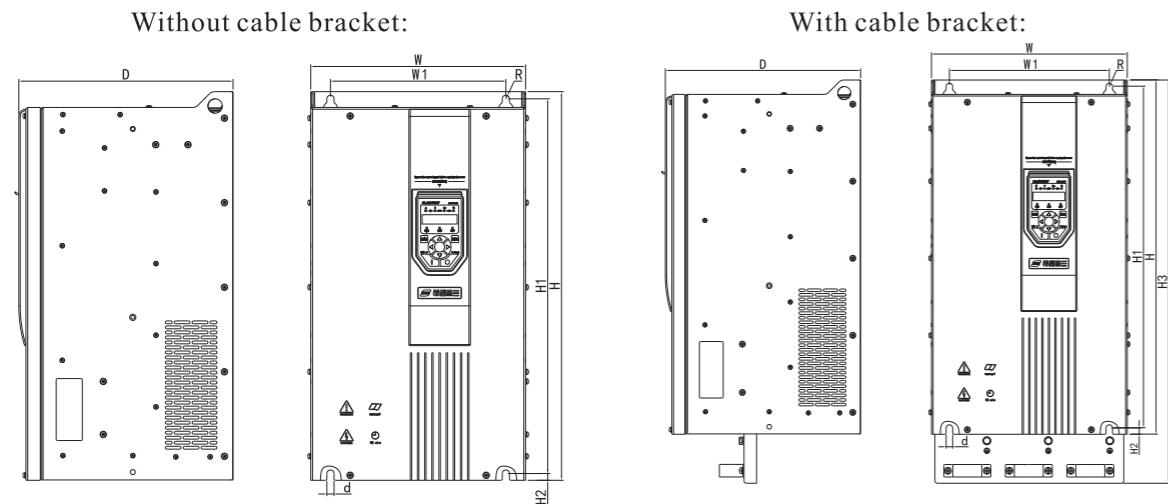
Without shield



Installation dimensions, weight and outline drawing of Hope530G45T4~Hope530G375T4 models:

Inverter model	W(mm)	W1(mm)	H(mm)	H1(mm)	H2(mm)	H3(mm)	D(mm)	d(mm)	R(mm)	Weight without reactor(kg)	Weight with reactor(kg)
Hope530G45T4**	300	245	545	525	10	620	300	10	5	29.1	33.5
Hope530G55T4**	300	245	545	525	10	620	300	10	5	29.1	34.3
Hope530G75T4**	340	270	580	562	10	676	326	10	5	50.9	63.2
Hope530G90T4*L	340	270	580	562	10	676	326	10	5	—	63.2
Hope530G110T4*L	340	270	580	562	10	676	326	10	5	—	63.2
Hope530G132T4*L	400	320	915	895	10	1013	355	10	5	—	92.5
Hope530G160T4*L	400	320	915	895	10	1013	355	10	5	—	92.5
Hope530G200T4L	440	300	1000	975	10	1170	395	11	5.5	—	118
Hope530G220T4L	440	300	1000	975	10	1170	395	11	5.5	—	118
Hope530G250T4L	485	300	1130	1100	12	1300	400	12	6	—	145
Hope530G280T4L	485	300	1130	1100	12	1300	400	12	6	—	145
Hope530G315T4L	650	490	1150	1125	10	1320	400	11	5.5	—	190
Hope530G375T4L	650	490	1150	1125	10	1320	400	11	5.5	—	192.5

The outline drawing of the model with iron case is as follows:



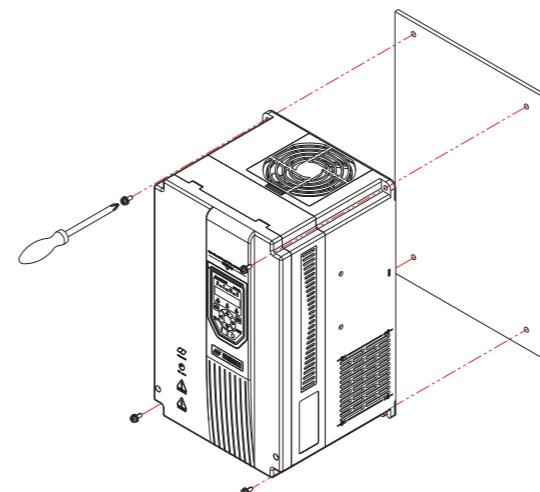
Installation dimensions, weight and outline drawing of Hope530G18.5T6~Hope530G375T6 (ironclad) models:

Inverter model	W (mm)	W1 (mm)	H (mm)	H1 (mm)	H2 (mm)	D (mm)	d (mm)	R (mm)	Weight with reactor (kg)
Hope530G18.5T6*L	260	190	555	531	9	284	10	5	27
Hope530G22T6*L	260	190	555	531	9	284	10	5	28
Hope530G30T6*L	260	190	555	531	9	284	10	5	29
Hope530G37T6*L	302	230	584	559	8	306	10	5	41
Hope530G45T6*L	302	230	584	559	8	306	10	5	42
Hope530G55T6*L	349	240	668	651	6	320	10	5	59
Hope530G75T6*L	349	240	668	651	6	320	10	5	60
Hope530G90T6L	379	240	720	700	8	337	9	5	69
Hope530G110T6L	379	240	720	700	8	337	9	5	70
Hope530G132T6L	400	320	770	750	12	352	10	5	76
Hope530G160T6L	400	320	770	750	12	352	10	5	78
Hope530G200T6L	450	300	898	871	11	393	12	6	108
Hope530G220T6L	450	300	898	871	11	393	12	6	110
Hope530G250T6L	485	300	1000	985	8	395	10	5	115
Hope530G280T6L	485	300	1000	985	8	395	10	5	118
Hope530G315T6L	485	300	1000	985	8	395	10	5	120
Hope530G375T6L	641	490	1052	1021	11	398	12	6	190

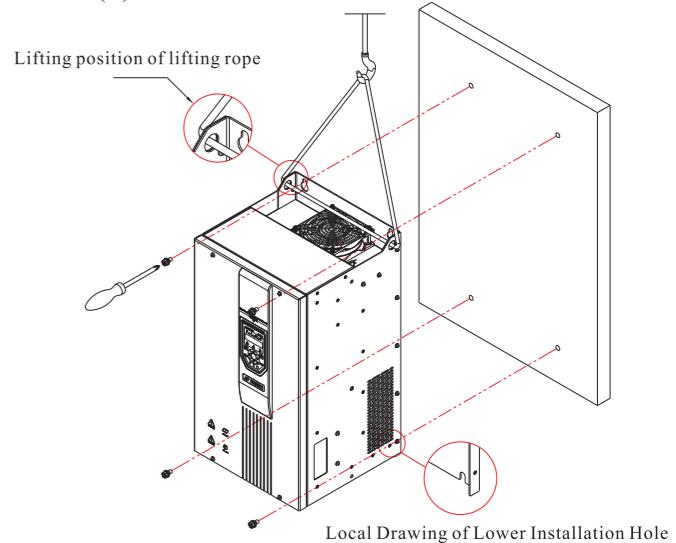
Product Installation

Wall-mounted installation

(1) Plastic case chassis

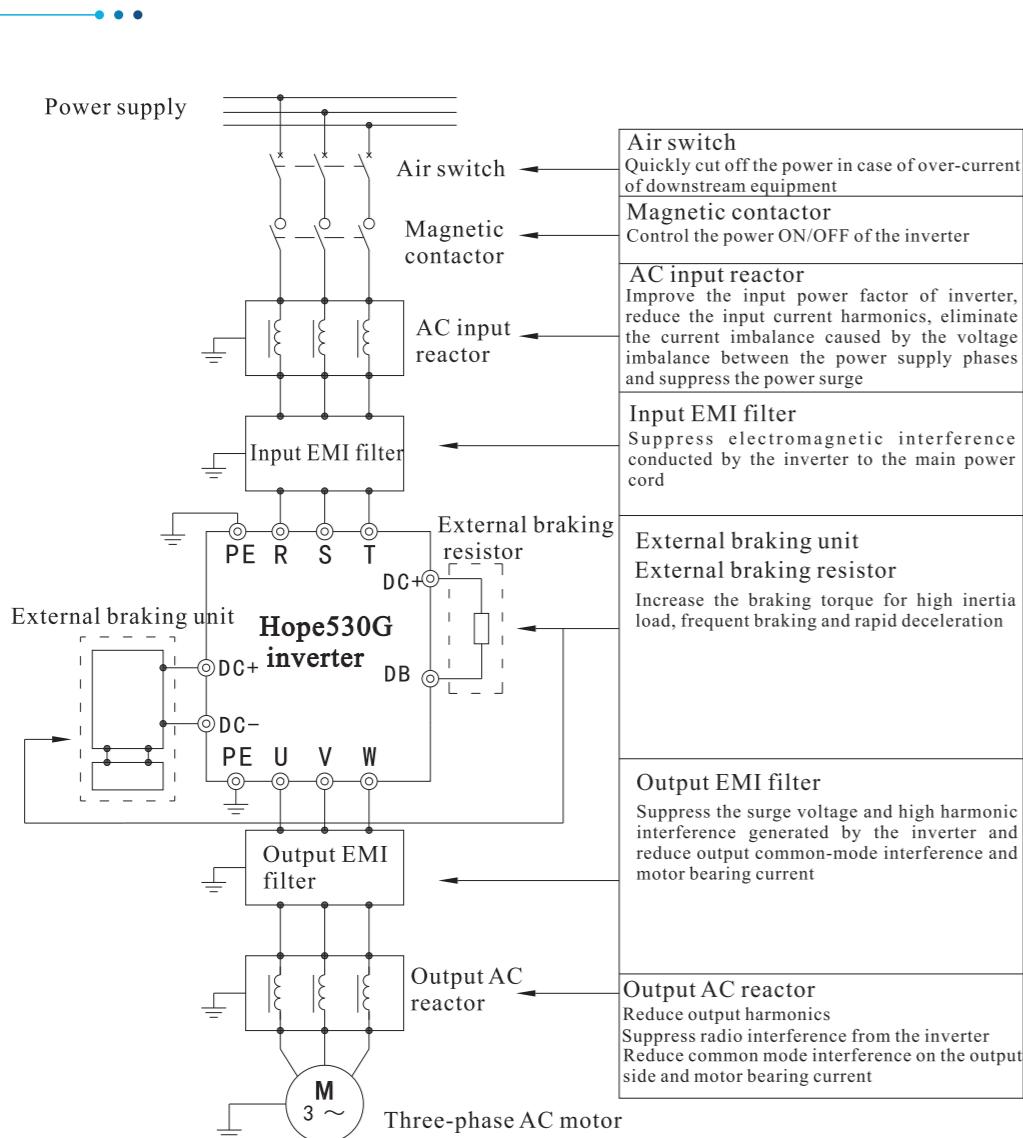


(2) Iron case chassis



Wiring

Diagram of connection between inverter and peripheral equipment



Recommended Model of Air Switch Capacity and Input/Output Copper-core Insulated Conductor

380V:

Inverter model	Air switch (A)	Input/output copper wire range (mm ²)	Recommended input/output copper wire models (mm ²)	Recommended wiring terminal model	Screw specification	Tightening torque N·m
Hope530G0.75T4B*	10	2.5	2.5	—	—	2~3
Hope530G1.5T4B*	16	2.5	2.5	—	—	2~3
Hope530G2.2T4B*	25	2.5	2.5	—	—	2~3
Hope530G4T4B*	32	2.5	2.5	—	—	2~3
Hope530G5.5T4B*	40	4	4	—	—	2~3
Hope530G7.5T4B*	40	6	6	—	—	2~3
Hope530G11T4B*	63	6	6	SC6-5	M5	2~3
Hope530G15T4B*	63	6	6	SC6-5	M5	2~3
Hope530G18.5T4B*	100	10~16	16	SC16-6	M6	3~6
Hope530G22T4B*	100	16~25	25	SC25-6	M6	3~6
Hope530G30T4**	125	16~25	25	SC25-6	M6	3~6
Hope530G37T4**	160	25~35	35	SC35-6	M6	3~6
Hope530G45T4**	200	35~50	50	SC50-8	M8	8~11
Hope530G55T4**	200	35~50	50	SC50-8	M8	8~11
Hope530G75T4**	315	70~95	95	SC95-10	M10	17~22
Hope530G90T4*L	315	70~95	95	SC95-10	M10	17~22
Hope530G110T4*L	400	95	95	SC95-10	M10	17~22
Hope530G132T4*L	400	95~185	120	SC120-12	M12	30~39
Hope530G160T4*L	500	120~185	150	SC150-12	M12	30~39
Hope530G200T4L	630	2×(75~95)	2×95	SC95-12	M12	30~39
Hope530G220T4L	630	2×(95~120)	2×120	SC120-12	M12	30~39
Hope530G250T4L	850	2×(95~120)	2×120	SC120-12	M12	30~39
Hope530G280T4L	850	2×(95~120)	2×120	SC120-12	M12	30~39
Hope530G315T4L	1000	2×(120~185)	2×150	SC150-12	M12	30~39
Hope530G375T4L	1200	2×(150~185)	2×150	SC150-12	M12	30~39

690V:

Inverter model	Air switch (A)	Input/output copper wire range (mm ²)	Recommended input/put copper wire models (mm ²)	Recommended wiring terminal model	Screw specification	Tightening torque N·m
Hope530G18.5T6*L	63	6~10	6	SC6-8	M8	10.5
Hope530G22T6*L	63	6~10	6	SC6-8	M8	10.5
Hope530G30T6*L	100	10~16	10	SC10-8	M8	10.5
Hope530G37T6*L	100	10~16	10	SC10-8	M8	10.5
Hope530G45T6*L	125	16~25	16	SC16-8	M8	10.5
Hope530G55T6*L	160	25~35	25	SC25-8	M8	10.5
Hope530G75T6*L	200	35	35	SC35-8	M8	10.5
Hope530G90T6L	200	35~50	35	SC35-10	M10	19.0
Hope530G110T6L	315	50~70	50	SC50-10	M10	19.0
Hope530G132T6L	315	70~95	70	SC70-10	M10	19.0
Hope530G160T6L	315	70~95	70	SC70-10	M10	19.0
Hope530G200T6L	400	95~120	95	SC95-12	M12	35.0
Hope530G220T6L	400	95~120	95	SC95-12	M12	35.0
Hope530G250T6L	500	120~150	120	SC120-12	M12	35.0
Hope530G280T6L	500	120~150	120	SC120-12	M12	35.0
Hope530G315T6L	630	185~240	185	SC185-12	M12	35.0
Hope530G375T6L	850	240或2*120	2*120	SC120-12	M12	35.0

Recommended Model of Grounding Cables

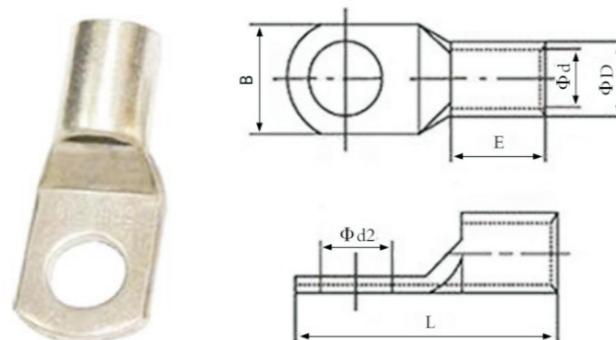
380V:

Inverter model	Grounding copper wire range (mm ²)	Recommended grounding copper wire model (mm ²)	Recommended wiring terminal model	Screw specification	Tightening torque N·m
Hope530G0.75T4B*	2.5	2.5	—	—	2~3
Hope530G1.5T4B*	2.5	2.5	—	—	2~3
Hope530G2.2T4B*	2.5	2.5	—	—	2~3
Hope530G4T4B*	2.5	2.5	—	—	2~3
Hope530G5.5T4B*	4	4	—	—	2~3
Hope530G7.5T4B*	6	6	—	—	2~3
Hope530G11T4B*	6	6	SC6-5	M5	2~3
Hope530G15T4B*	6	6	SC6-5	M5	2~3
Hope530G18.5T4B*	10~16	16	SC16-6	M6	3~6
Hope530G22T4B*	10~16	16	SC16-6	M6	3~6
Hope530G30T4**	10~16	16	SC16-6	M6	3~6
Hope530G37T4**	10~16	16	SC16-6	M6	3~6
Hope530G45T4**	16~25	25	SC25-8	M8	8~11
Hope530G55T4**	16~25	25	SC25-8	M8	8~11
Hope530G75T4**	35~50	50	SC50-8	M8	8~11
Hope530G90T4*L	35~50	50	SC50-8	M8	8~11
Hope530G110T4*L	35~50	50	SC50-8	M8	8~11
Hope530G132T4*L	50~70	70	SC70-8	M8	8~11
Hope530G160T4*L	70~95	95	SC95-8	M8	8~11
Hope530G200T4L	2×50	2×50	SC50-8	M8	8~11
Hope530G220T4L	2×(50~70)	2×70	SC70-8	M8	8~11
Hope530G250T4L	2×70	2×70	SC70-8	M8	8~11
Hope530G280T4L	2×70	2×70	SC70-8	M8	8~11
Hope530G315T4L	2×(70~95)	2×95	SC95-10	M10	17~22
Hope530G375T4L	2×(70~95)	2×95	SC95-10	M10	17~22

690V:

Inverter model	Grounding copper wire range (mm ²)	Recommended grounding copper wire model (mm ²)	Recommended wiring terminal model	Screw specification	Tightening torque N·m
Hope530G18.5T6*L	4~6	4	SC4-6	M6	4.0
Hope530G22T6*L	4~6	4	SC4-6	M6	4.0
Hope530G30T6*L	4~6	6	SC6-6	M6	4.0
Hope530G37T6*L	4~6	6	SC6-6	M6	4.0
Hope530G45T6*L	10~16	10	SC10-6	M6	4.0
Hope530G55T6*L	16~25	16	SC16-6	M6	4.0
Hope530G75T6*L	16~25	16	SC16-6	M6	4.0
Hope530G90T6L	16~25	16	SC16-6	M6	4.0
Hope530G110T6L	25~35	25	SC25-6	M6	4.0
Hope530G132T6L	35~50	35	SC35-8	M8	10.5
Hope530G160T6L	35~50	35	SC35-8	M8	10.5
Hope530G200T6L	50~70	50	SC50-8	M8	10.5
Hope530G220T6L	50~70	50	SC50-8	M8	10.5
Hope530G250T6L	70~95	70	SC70-8	M8	10.5
Hope530G280T6L	70~95	70	SC70-8	M8	10.5
Hope530G315T6L	95~120	95	SC95-8	M8	10.5
Hope530G375T6L	120~150	120	SC120-8	M8	10.5

SC crimping terminal appearance is shown below:

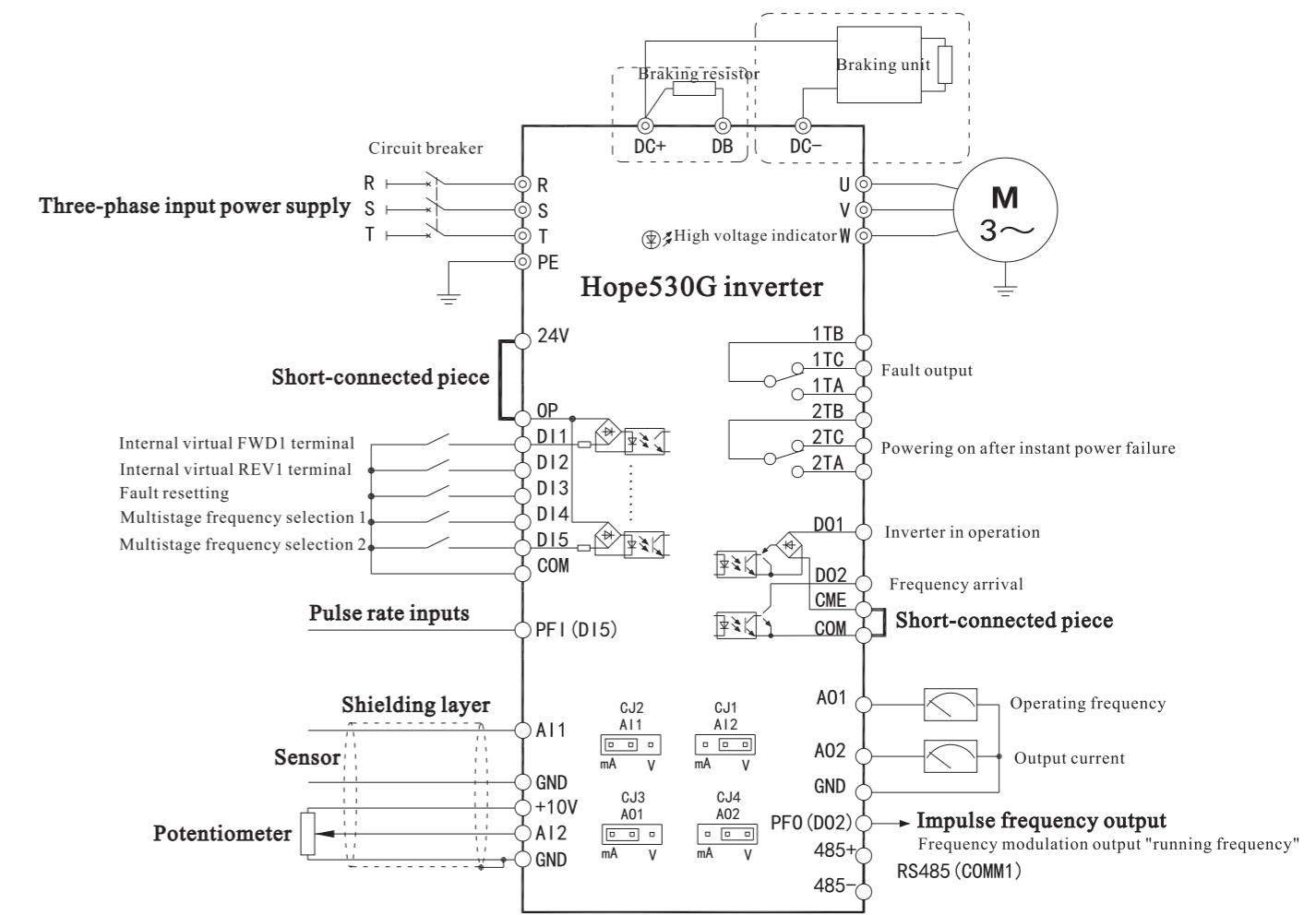


List of model and dimension of SC terminal:

Type	Dimension (mm)						Type	Dimension (mm)					
ITEM NO.	Φd2	B	L	ΦD	Φd	E	ITEM NO.	Φd2	B	L	ΦD	Φd	E
SC1.5-4	4.2	8	16	3.7	1.8	5	SC50-6	6.5	17.8	45	12.4	9.5	16
SC1.5-5	5.2	10	17				SC50-8	8.4	17.8	45			
SC1.5-6	6.5	10	18				SC50-10	10.5	17.8	45			
SC2.5-4	4.2	8	18		2.4	7	SC50-12	13	20	45			
SC2.5-5	5.2	10	20				SC50-14	15	22	46			
SC2.5-6	6.5	10	20				SC50-16	17	24	47			
SC2.5-8	8.4	12.5	23				SC70-8	8.4	21	52	14.7	11.2	20
SC4-4	4.2	10	20	4.8	3.1	7	SC70-10	10.5	21	52			
SC4-5	5.2	10	20				SC70-12	13	21	52			
SC4-6	6.5	10	20				SC70-14	15	21	52			
SC4-8	8.4	12.5	23				SC70-16	17	25	53			
SC6-4	4.2	10	24	5.5	3.8	9	SC95-8	8.4	25	58	17.4	13.5	23
SC6-5	5.2	10	24				SC95-10	10.5	25	58			
SC6-6	6.5	12	24				SC95-12	13	25	58			
SC6-8	8.4	12.5	26				SC95-14	15	25	58			
SC6-10	10.5	15	28				SC95-16	17	25	58			
SC10-5	5.2	12	25	6.2	4.5	9	SC120-8	8.4	28	63	19.4	15	22
SC10-6	6.5	12	25				SC120-10	10.5	28	63			
SC10-8	8.4	12.5	27				SC120-12	13	28	63			
SC10-10	10.5	15	29				SC120-14	15	28	63			
SC10-12	13	17	31				SC120-16	17	28	63			
-	-	-	-	-	-	-	SC120-20	21	28	63			

The basic operation wiring connection is as follows:

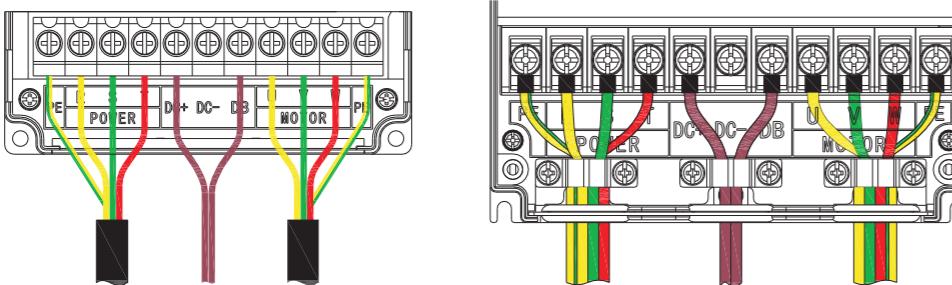
Type	Dimension (mm)					Type	Dimension (mm)						
ITEM NO.	Φd2	B	L	ΦD	Φd	E	ITEM NO.	Φd2	B	L	ΦD	Φd	E
SC16-5	5.2	12	30	7.1	5.4	12	SC150-8	8.4	30.6	70	21.2	16.5	26
SC16-6	6.5	12	30				SC150-10	10.5	30.6	70			
SC16-8	8.4	12.5	30				SC150-12	13	30.6	70			
SC16-10	10.5	16	33				SC150-14	15	30.6	70			
SC16-12	13	17	35				SC150-16	17	30.6	70			
SC25-5	5.2	13	33	8.8	6.8	12	SC150-20	21	30.6	70	23.5	18.5	32
SC25-6	6.5	13	33				SC185-10	10.5	34	75			
SC25-8	8.4	15	33				SC185-12	13	34	75			
SC25-10	10.5	18	34				SC185-14	15	34	75			
SC25-12	13	18	35				SC185-16	17	34	75			
SC25-14	15	20	38				SC185-20	21	34	75			
SC35-5	5.2	16	38	10.6	8.2	14	SC240-10	10.5	38.6	90	26.5	21	38
SC35-6	6.5	16	38				SC240-12	13	38.6	90			
SC35-8	8.4	16	38				SC240-14	15	38.6	90			
SC35-10	10.5	18	39				SC240-16	17	38.6	90			
SC35-12	13	19	40.5				SC240-18	19	38.6	90			
SC35-14	15	20	42				SC240-20	21	38.6	90			



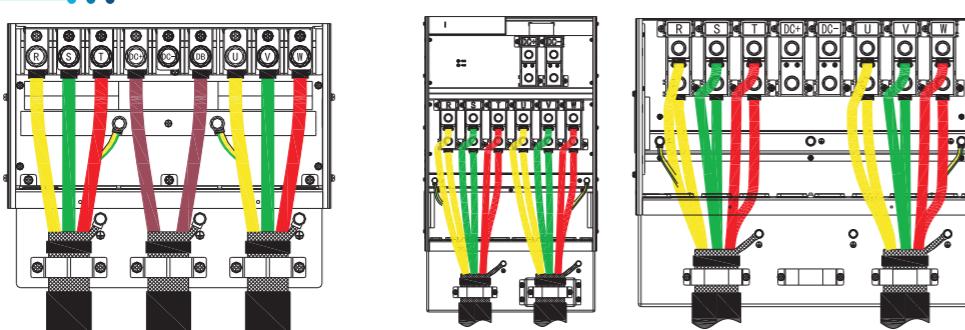
Description on major loop terminal function

Terminal symbol	Terminal name	Explanation
R、S、T	Input power terminal	Connect with three-phase 380V power supply
U、V、W	Inverter output terminal	Connect with three-phase motor
DC+、DC-	DC bus terminal	Connect braking unit between DC+ and DC-
DB	Brake output terminal	Connect braking resistor between DC+ and DB
PE	Grounding terminal	Grounding terminal on inverter case shall be grounded

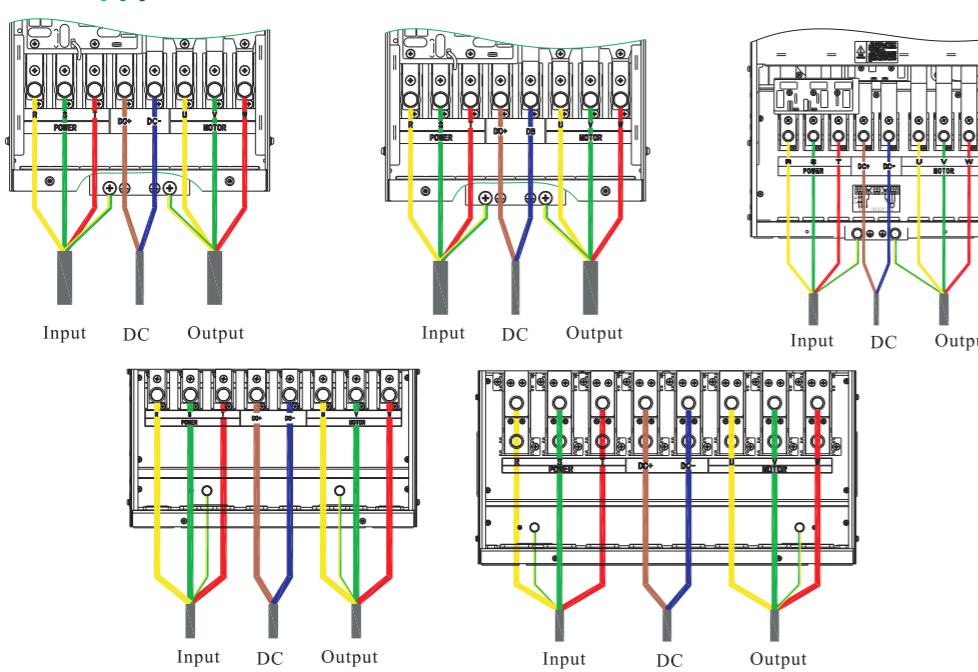
Power cable wiring of 380V grade plastic case model



Power cable wiring of 380V grade iron case model

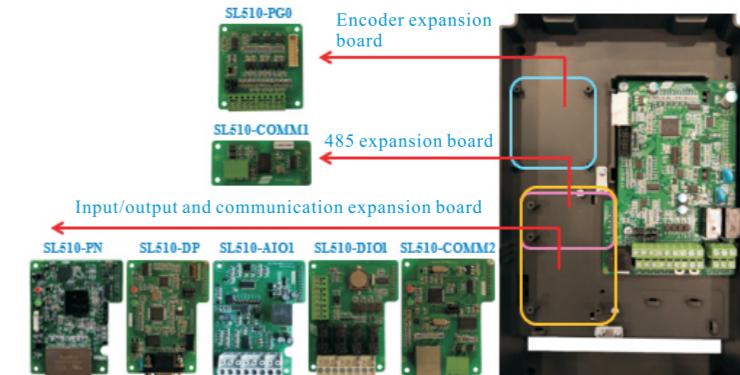


Power cable wiring of 690V grade iron case model



Modular design

Provide input/output expansion board, encoder expansion board, isolated RS485 communication expansion board, profibus-DP,PROFINET communication components, etc.



Some expansion board models	Function
SL510 -PN	1-path PROFINET module
SL510 -DP	1-path Profibus-DP module
SL510 -DIO1	3-path digital input, 4-path relay output, RS485 communication
SL510 -AIO1	2-path analog input (voltage/current), 1-path analog output (voltage/current)
SL510 -COMM2	1-path isolated RS485 communication module (supports TCP)

HMI

Operation panel model:

- ① HOPE-PU07 (LED panel, standard)
- ② HOPE-PU04 (external LCD panel, optional)

Current status indicating LED, show the running status clearly at a glance



Function:

- ① Set and view parameters
- ② Control the operation
- ③ Display fault information

Multi-functional operational keys

Eye-catching run and stop/reset keys

Marketing & Service Network

Hope Senlan has a strong marketing and service network that covers 31 areas in China (including province, city and autonomous region), Asia, Europe and the Americas, and has set up branches in Indonesia, Malaysia, Vietnam, Singapore and Hong Kong, providing users with the unique "Senlan Steward Type Services", including pre-sales technical consultation, scheme design, installation & commissioning during the sale, after-sales training, repair and maintenance. The professional sales and service teams of Hope Senlan will be always at your service!