

SOWAKAM



SELECTION MANUAL



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ABOUT US

SOWAKAM is professionally engaged in the development, manufacturing and marketing of industrial automation control products. With a powerful R&D team, advanced production system, independent intellectual property, SOWAKAM is recognized by the automation industry.

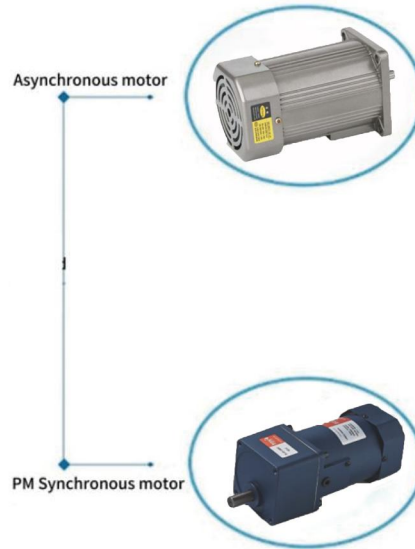
Our products mainly include Frequency inverter, Solar pump inverter, Air cooler inverter, Industrial fan inverter, etc. Our engineers are insisting on the continuous research and development of higher performance inverter and special machines inverter for various industries.

SOWAKAM inverters are widely used in fans, pumps, petroleum, chemical, ceramics, machine tools, metal products, wire and cable, plastic, printing and packing, textile and chemical industry, metallurgy, coal mine, municipal and other industries.

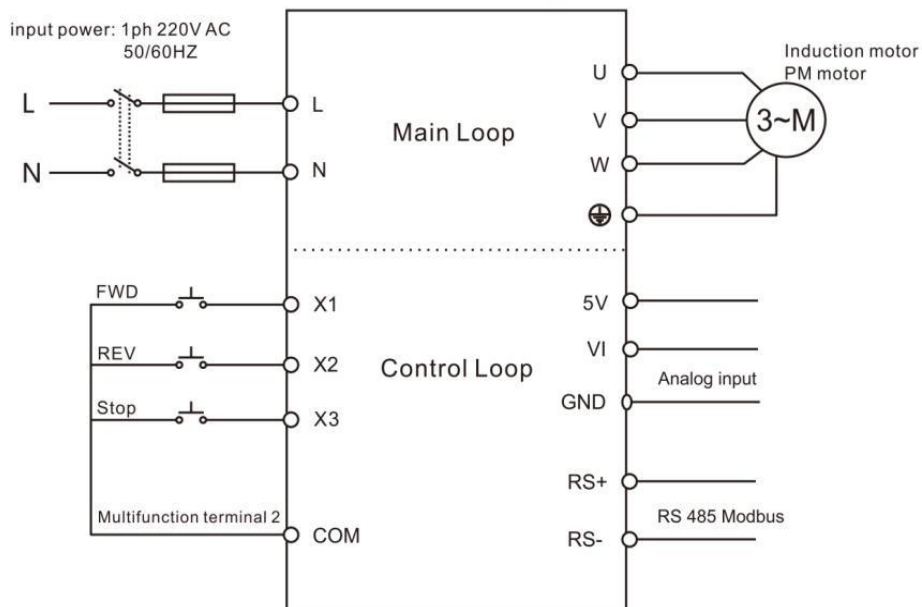
SOWAKAM uses an unique and rigorous engineering process to ensure the advanced quality. The R&D team tests all technologies with a range of leading-edge testing facilities.

SOWAKAM devotes to become a global leading supplier of industrial automation products and system solutions!

SW01 Micro Frequency Inverter



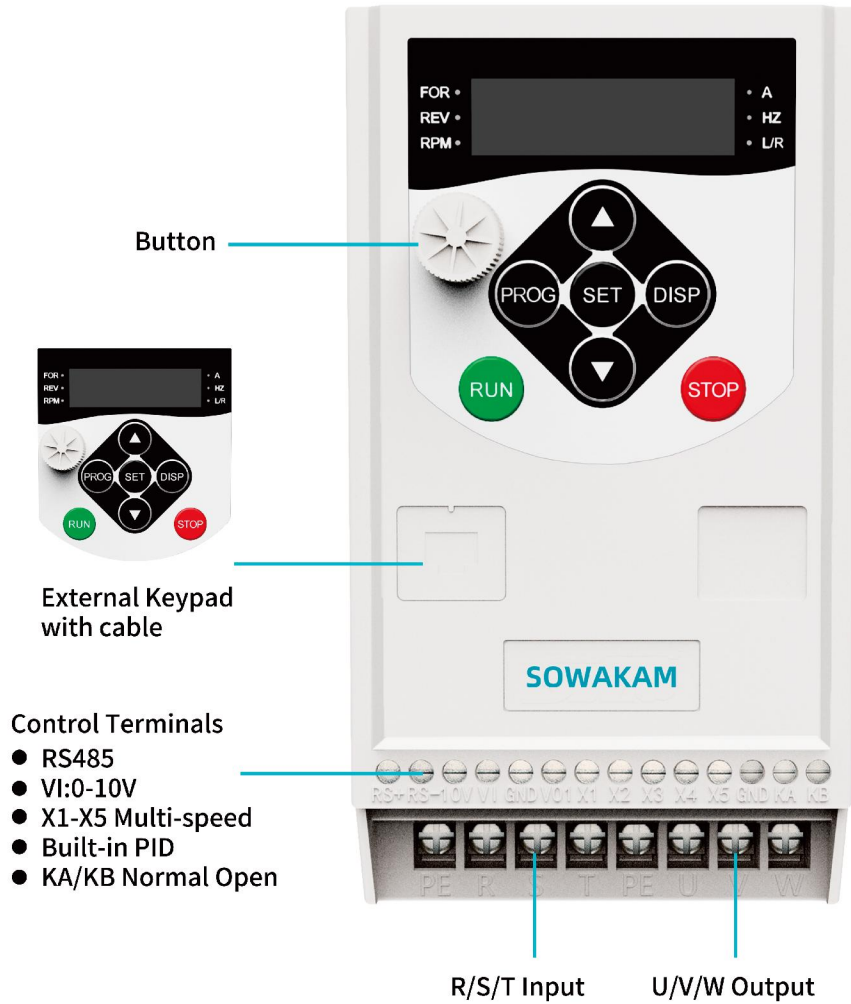
Control circuit wiring diagram



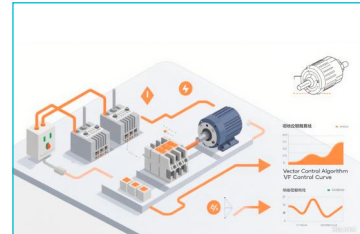
TYPE	VOLTAGE	POWER (KW)	DIMENSION(MM)		
			H	W	D
G1	1PH 220V Input 3PH 220V Output	0.2	103	61	148
		0.4	103	61	148
		0.75	103	61	148

SW10

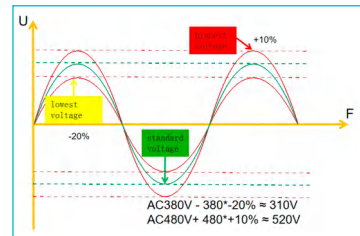
Economic Type Inverter



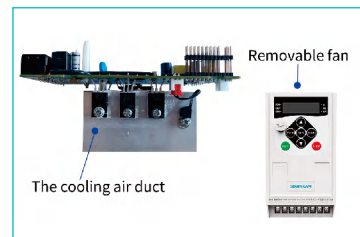
Vector & VFcontrol



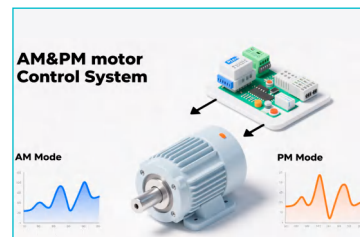
Wide Voltage



Independent Cooling Duct



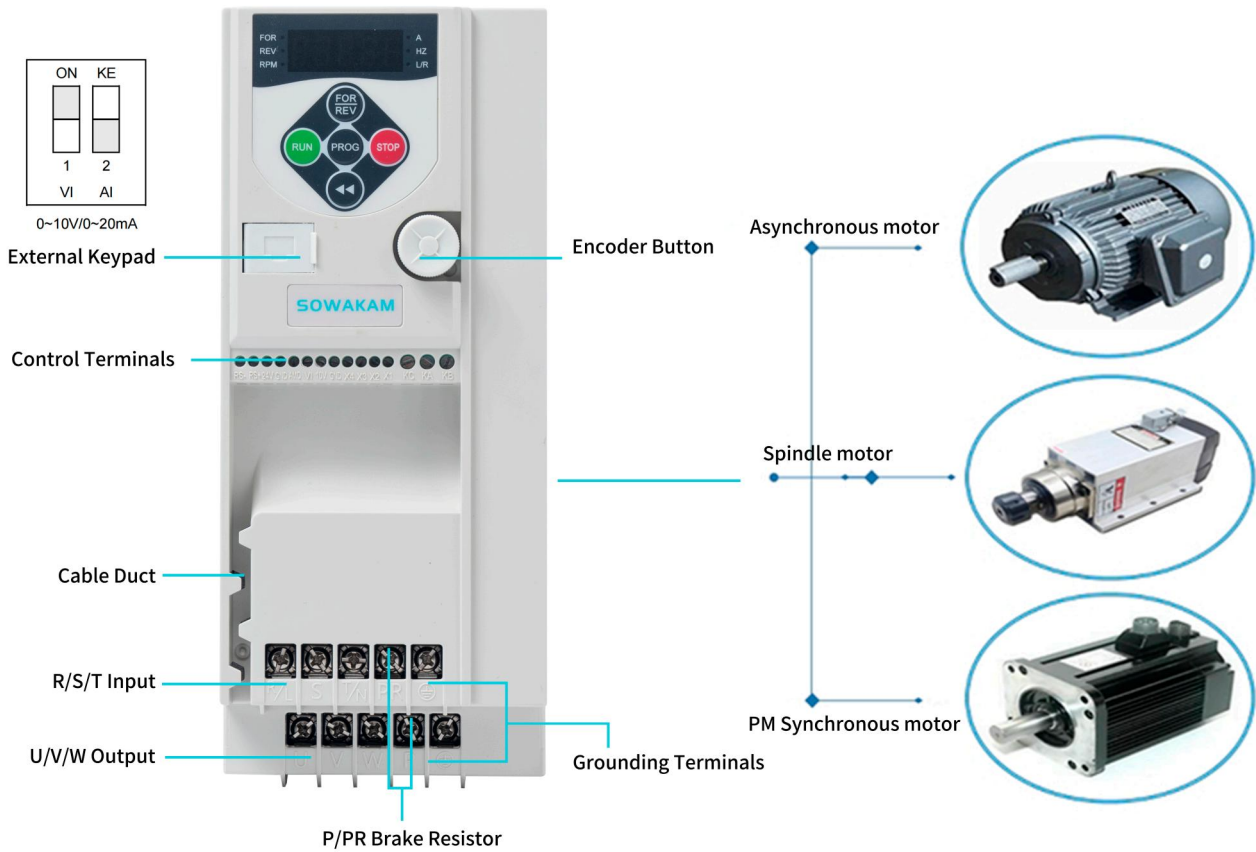
Support AM&PM motor



TYPE	VOLTAGE	POWER (KW)	DIMENSION(MM)		
			H	W	D
G1	1PH 220V Input 3PH 220V Output	0.4-1.5	146	78	114
G3	3PH 380V Input 3PH 380V Output	0.4-2.2	146	78	114

SW100

Book Type Inverter



TYPE	VOLTAGE	POWER (KW)	DIMENSION(MM)		
			H	W	D
G1	1PH 220V Input 3PH 220V Output	0.75-2.2	173	65	151
		3-4	219	85	164
G2	3PH 220V Input 3PH 220V Output	0.4-1.5	173	65	151
		2.2-4	219	85	164
G3	3PH 380V Input 3PH 380V Output	0.75-3	173	65	151
		4-7.5	219	85	164
G4	1PH 220V Input 3PH 380V Output	0.75-1.5	173	65	151
		2.2-4	219	85	164

Installation Methods



side-by-side installation

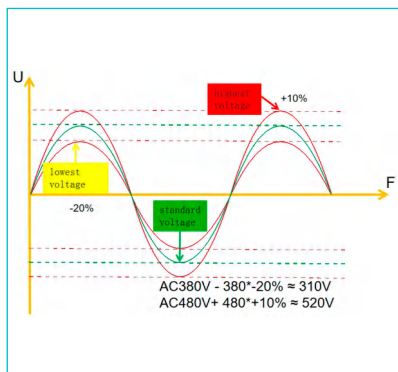


DIN rail installation



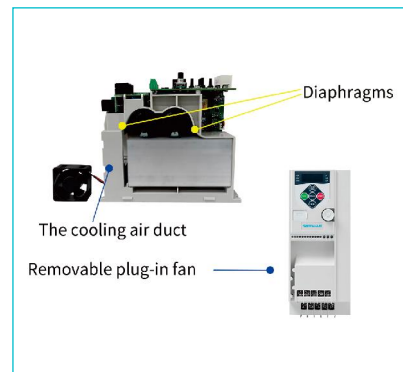
side mounted installation

Wide Voltage



Wide Voltage (-20%~+10%)
AC 160~264V/AC 304~528V

Independent Cooling Duct



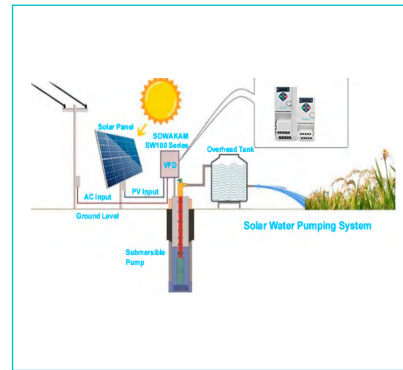
PCBA and air duct are fully isolated
Removable Fan

Easy Operation & Parameter Copy



Support external keypad
Parameter copy

MPPT Function for Solar Pump



DC voltage:
150-400VDC for 220VAC
250-800VDC for 380VAC

Applications



Fans & Pumps



Automatic
Production Line



Woodworking
Machinery



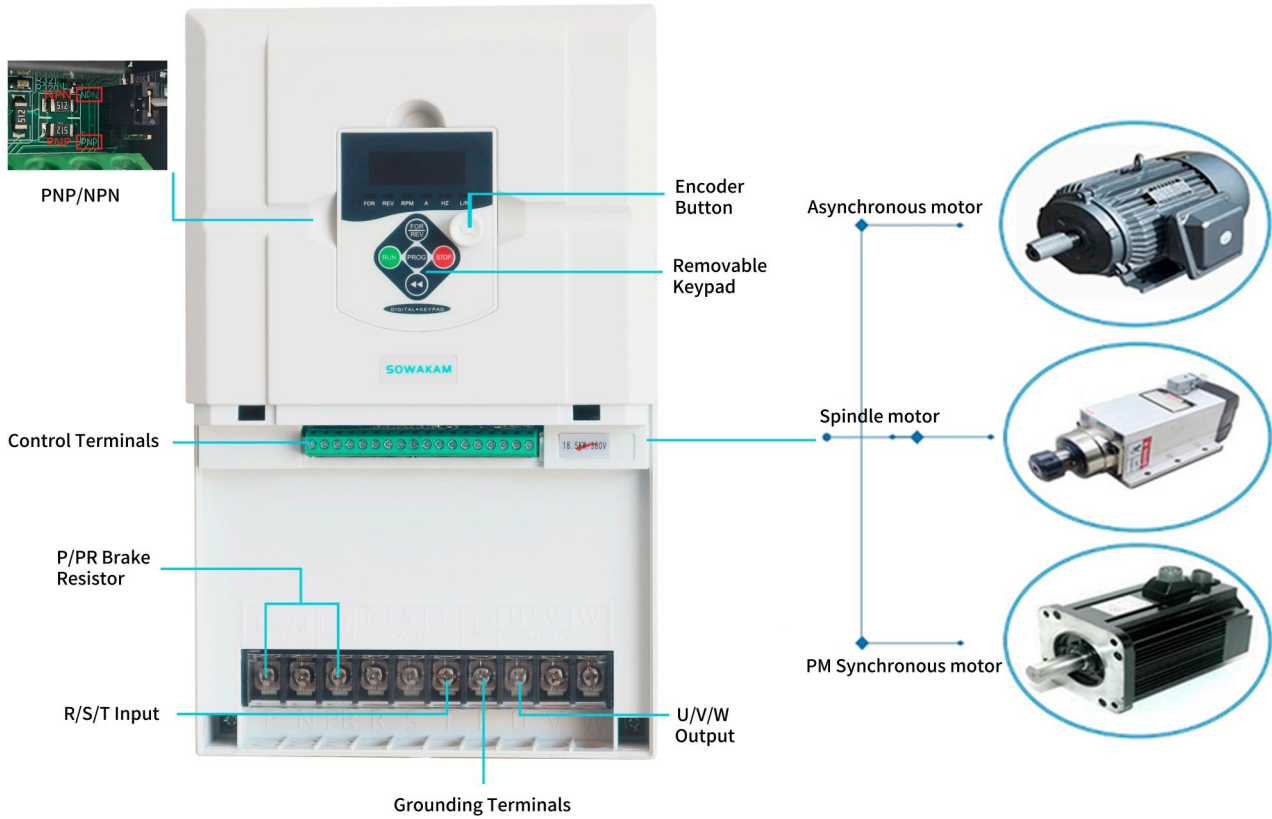
Smart Logistics



Food Packing

SW200

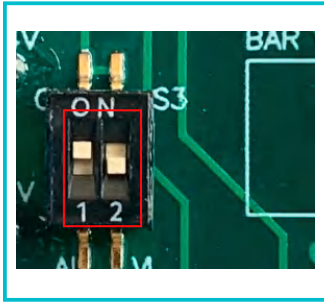
General Type Inverter



TYPE	VOLTAGE	POWER (KW)	DIMENSION H*W*D(MM)
G1	1PH 220V Input 3PH 220V Output	0.75-3	196*116*167.5
		4-5.5	256*162*182.7
		7.5-11	320*184*197.7
		15-18.5	430*288*223
		22-30	580*337*242
		37-45	650*379*242
		55	700*410*350
G2	3PH 220V Input 3PH 220V Output	0.75-4	196*116*167.5
		5.5-7.5	256*162*182.7
		11-15	320*184*197.7
		18.5-22	430*288*223
		30-37	580*337*242
	45-55	650*379*242	

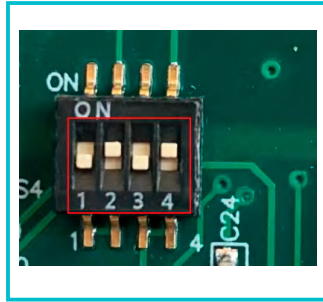
TYPE	VOLTAGE	POWER (KW)	DIMENSION H*W*D(MM)
G3	3PH 380V Input 3PH 380V Output	0.75-7.5	196*116*167.5
		11-15	256*162*182.7
		18.5-30	320*184*197.7
		37-45	430*288*223
		55-75	580*337*242
		93-110	650*379*242
		132-160	700*410*350
		187-220	888*570*390
		250-315	1050*665*392
		350-500	1100*824*417
G4	1PH 220V Input 3PH 380V Output	0.75-4	196*116*167.5
		5.5-7.5	256*162*182.7
		11-15	320*184*197.7
		18.5-22	430*288*223
		30-37	580*337*242
	45-55	650*379*242	

DIP Switch



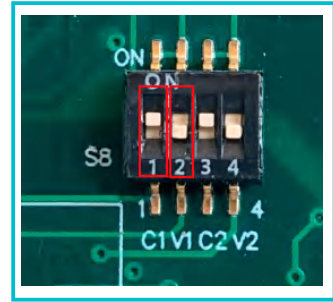
S3: VI switch

1: ON	1: OFF
2: OFF	2: ON
Current input	Voltage input



S4: X5 & X6 function switch

1/3: ON	1/3: OFF
2/4: OFF	2/4: ON
X5 Digital input	X5 AMI output
X6 Digital input	X6 Y output



S8: Analog switch

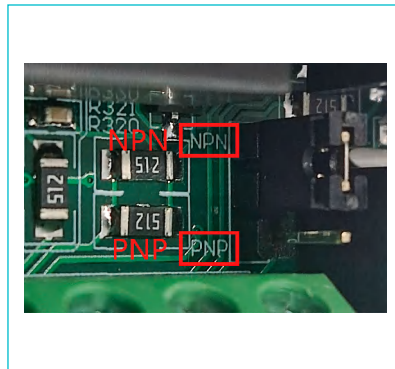
1/3: ON	1/3: OFF
2/4: OFF	2/4: ON
AM0 Current output	AM0 Voltage output
A00 Current output	A00 Voltage output

Removable Keypad



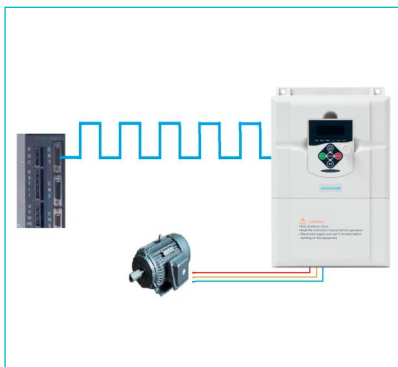
Removable keypad with cables
Easy to copy parameter

PNP /NPN



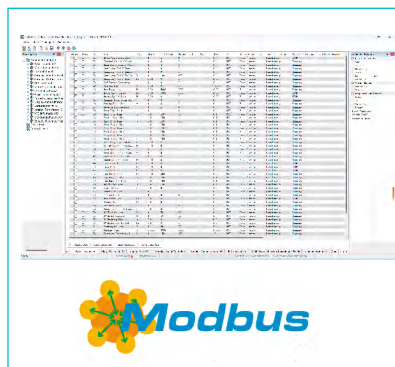
Support 0V & 24V voltage input
Applicable to various PLCs

High-speed Pulse



Support High-speed pulse input&output

RS485 Modbus



RS485 communication software

Applications



Oil Pumps



Printing&Packing



Municipal
Environmental
Protection



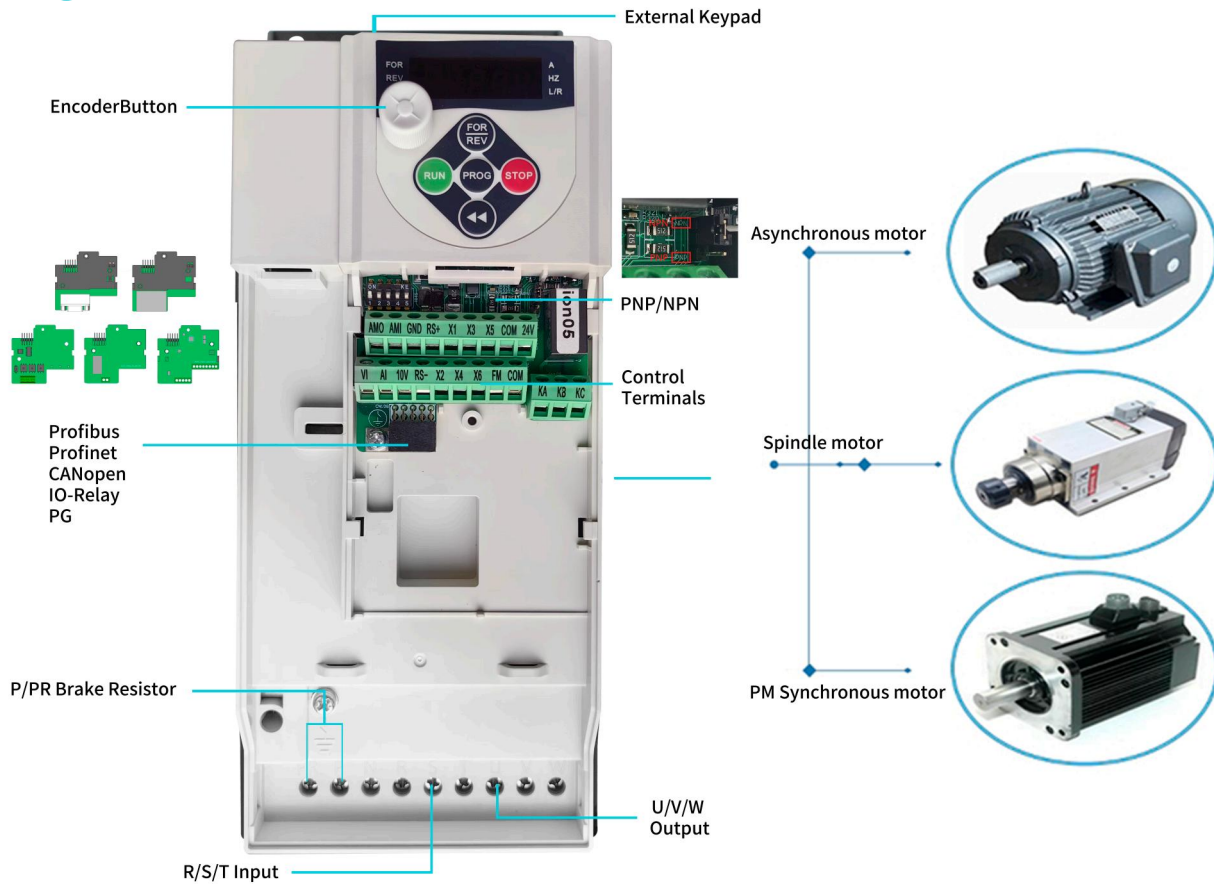
Mining Industry



Plastic Industry

SW300

High Performance Inverter



TYPE	VOLTAGE	POWER (KW)	DIMENSION H*W*D(MM)
G1	1PH 220V Input 3PH 220V Output	0.75-1.5	206*81*140
		2.2-4	252*102*167
		5.5-7.5	256*162*182.7
		11-15	320*184*197.7
		18.5-22	430*288*223
		30-37	580*337*242
		45-55	650*379*242
G2	3PH 220V Input 3PH 220V Output	0.75-1.5	206*81*140
		2.2-4	252*102*167
		5.5-7.5	256*162*182.7
		11-15	320*184*197.7
		18.5-22	430*288*223
		45-55	650*379*242

TYPE	VOLTAGE	POWER (KW)	DIMENSION H*W*D(MM)
G3	3PH 380V Input 3PH 380V Output	0.75-3	206*81*140
		4-7.5	252*102*167
		11-15	324*116*187
		18.5-30	348*170*188
		37-45	430*288*223
		55-75	580*337*242
		93-110	650*379*242
		132-160	700*410*350
		187-220	888*570*390
		250-315	1050*665*392
G4	1PH 220V Input 3PH 380V Output	0.75-1.5	206*81*140
		2.2-4	252*102*167
		5.5-7.5	256*162*182.7
		11-15	320*184*197.7
		18.5-22	430*288*223
		30-37	580*337*242
		45-55	650*379*242

Installation Methods

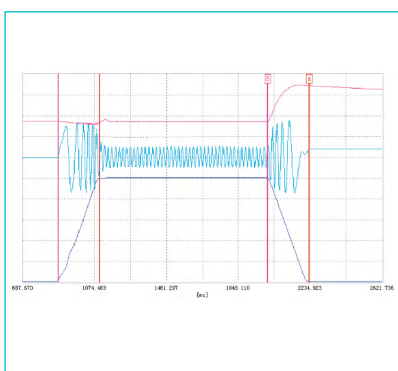


side-by-side installation



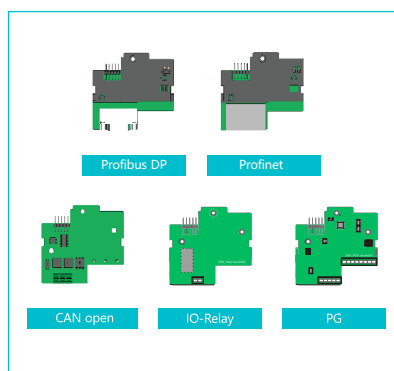
wall mounted installation

Precise Current Control



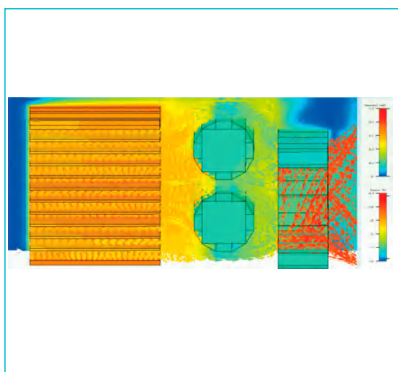
Current control is more precise & smoother
Precise voltage control without repetition

Expansion Cards



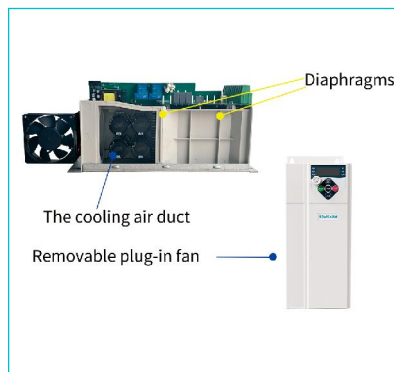
CANopen/Profibus/Profinet/IO/PG
expansion cards

High Temperature Resistance



Good heat dissipation
Used at ambient temperature of 50°C

Independent Cooling Duct



PCBA and air duct are fully isolated
Removable Fan

Applications



Ceramic Industry



Chemistry
Industry



Wires and Cables



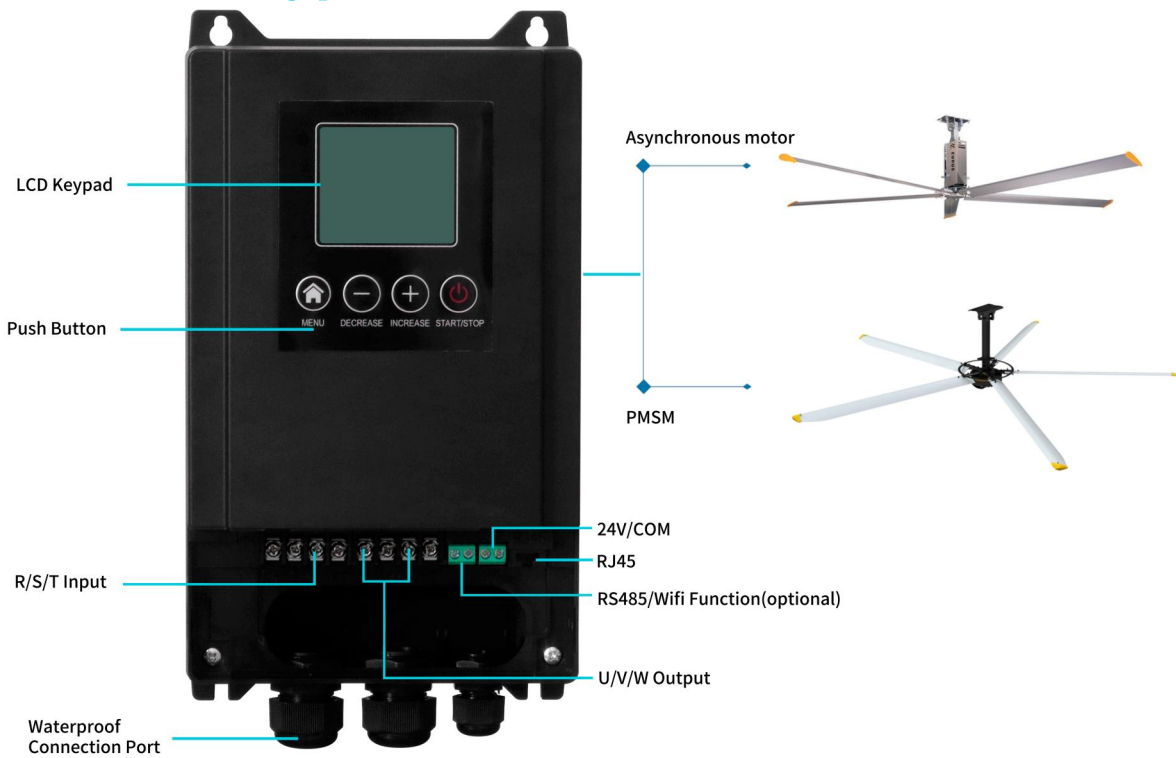
CNC



Textile Industry

SW220G

Industrial Type HVLS Fan Drive



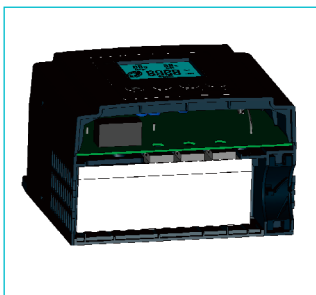
SW220G series is an industrial inverter for HVLS Fans. Support IM & PM motor, smooth start and stop, easy operation, no noise. Support RS485 or Wifi function (optional). Widely used for factory workshops, warehouse, farms, stadiums etc.

Power Range:

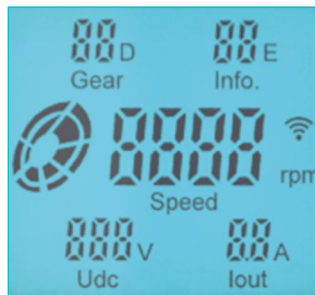
0.75-1.5KW (1 Phase 220V input, 3 Phase 220V output)

0.75-2.2KW (3 Phase 380V input, 3 Phase 380V output)

Left and Right Cooling Design



Large LCD Display



Ultra-quiet Operation

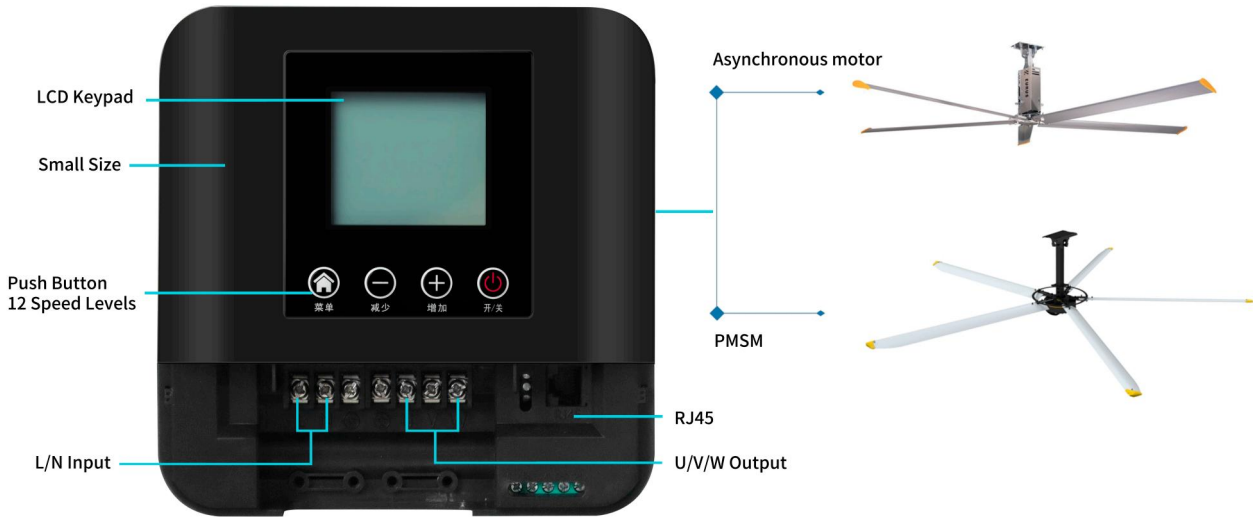


Support Parameter Copy



SW210G

Commercial Type HVLS Fan Drive

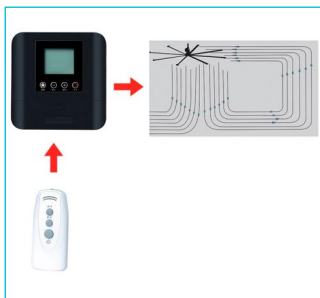


SW210G series is customized inverter for HVLS (High Volume&Low Speed) Fans. This series is widely used for supermarket, office, shopping mall and school, etc.

Power Range:

0.75KW (1 Phase 220V input, 3 Phase 220V output)

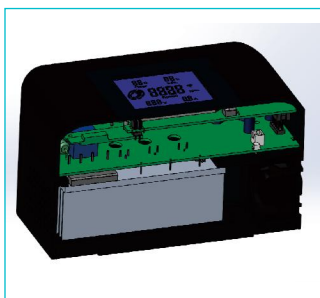
Wireless Remote Control



Large LCD Display



Left and Right Cooling Design

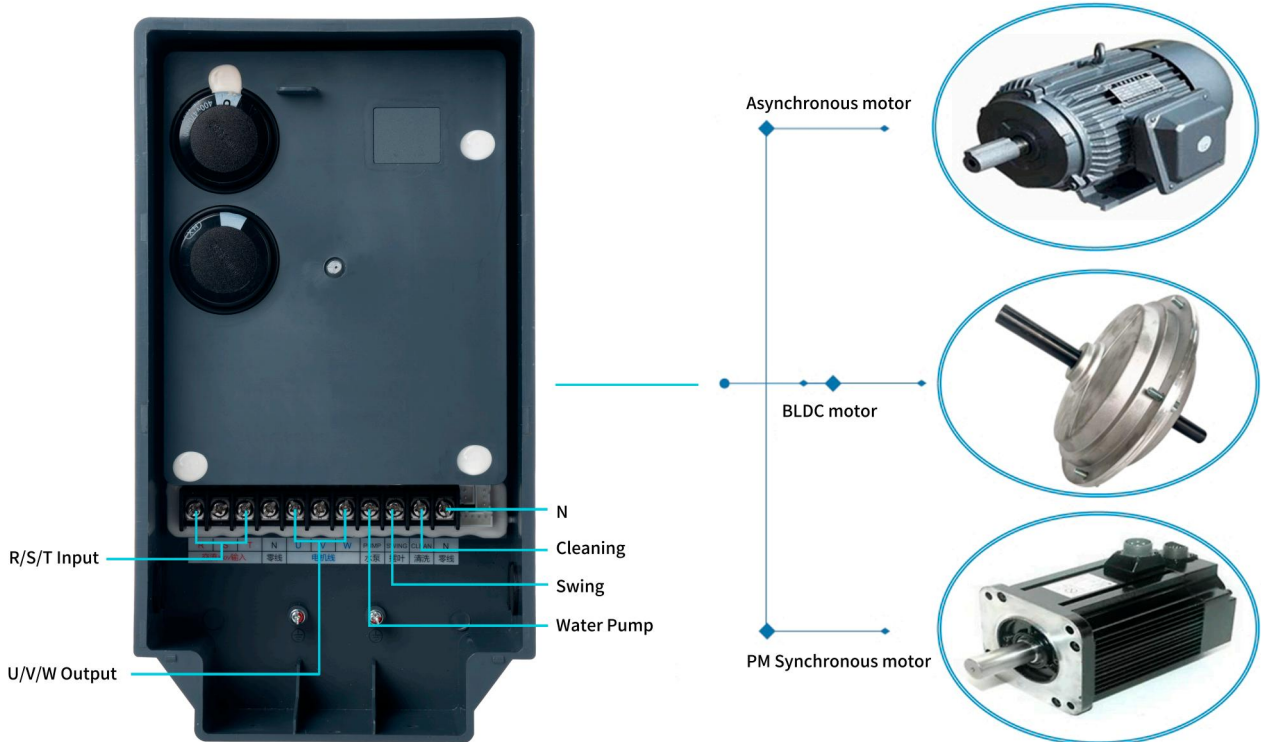


Support Parameter Copy



SW200L3

Inverter Controller for Air Cooler



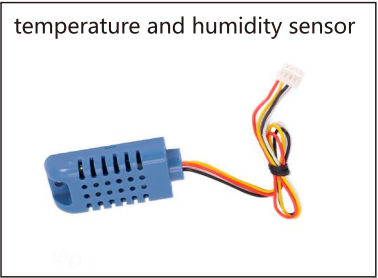
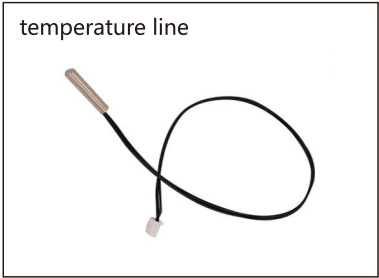
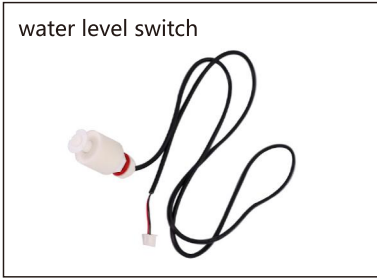
SW200L3 series is higher protection level air cooler controller, supports both IM motor and PM motor with LCD display, remote control, PID control, refrigeration, cleaning, swing blade and other functions.

Power range:

1.5-2.2KW (1 Phase 220V input, 3 Phase 220V output)

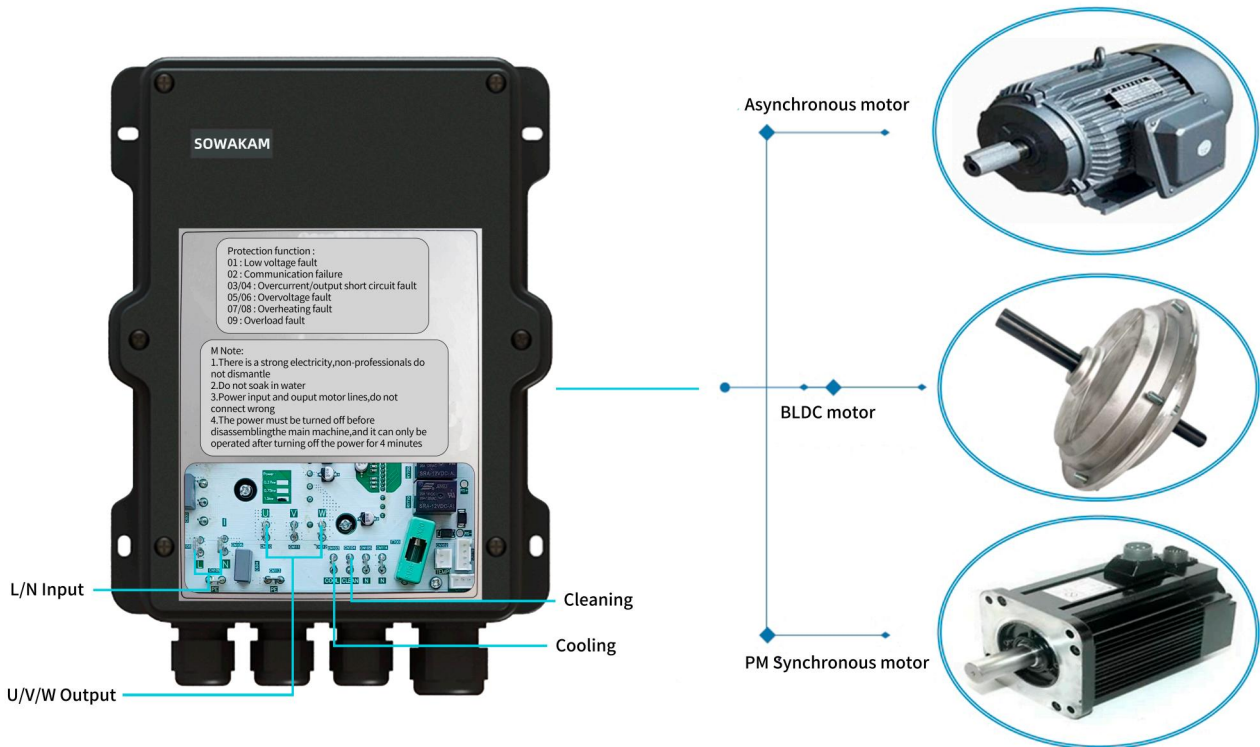
1.5-3KW (1 Phase 380V input, 3 Phase 380V output)

External Accessory



SW211L3

Inverter Controller for Air Cooler



SW211L3 series is higher protection level air cooler controller, supports both IM motor and PM motor with LCD display, remote control, PID control, refrigeration, cleaning, swing blade and other functions.

Power range:

1.5KW (1 Phase 220V input, 3 Phase 220V output)

External Accessory

Liquid crystal keyboard



LCD remote controller



infrared remote controller



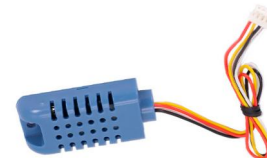
water level switch



temperature line

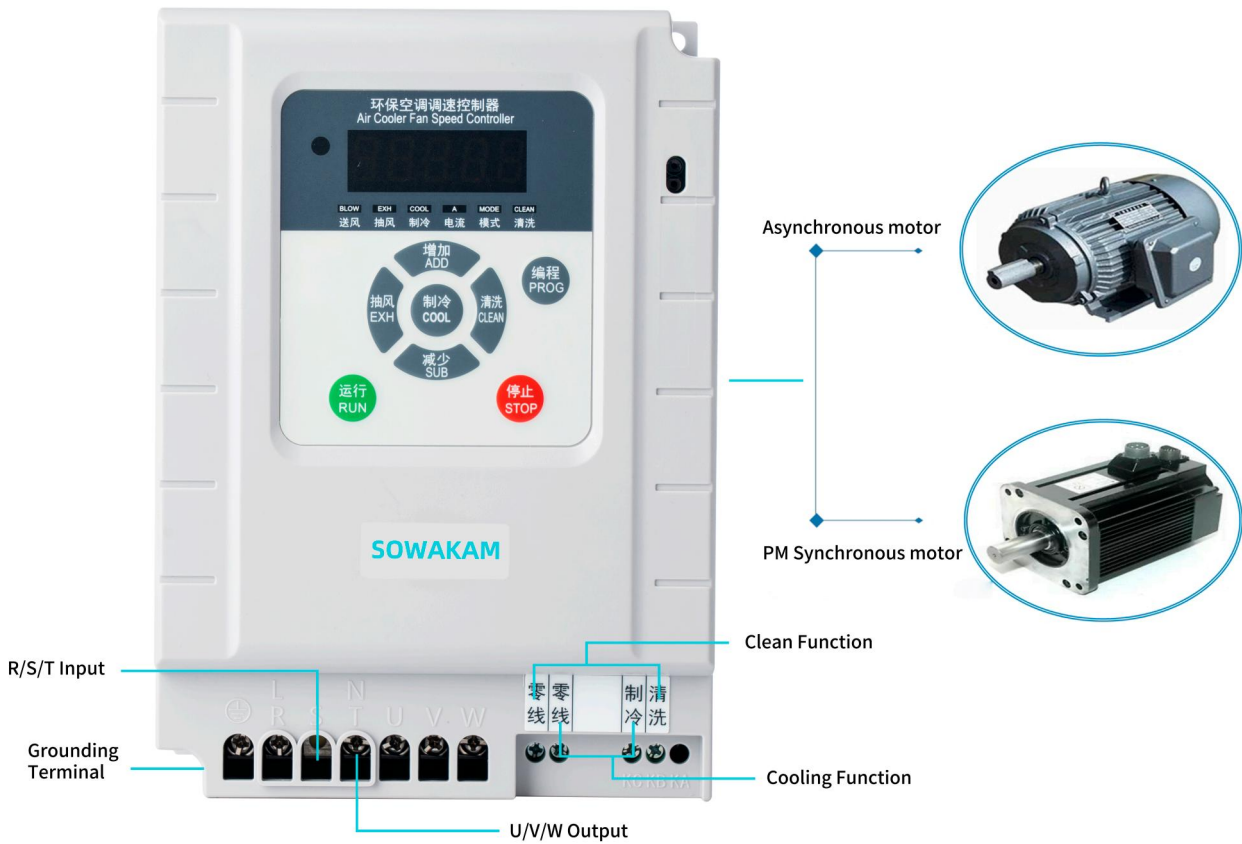


temperature and humidity sensor



SW200L1

Inverter Controller for Air Cooler



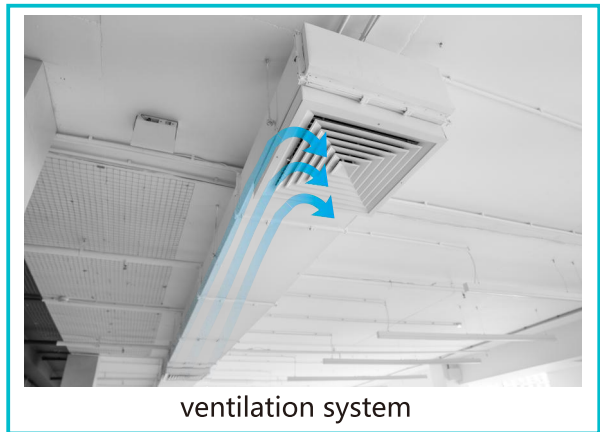
SW200L1 series is specific air cooler controller, with features of remote control, independent air duct and superior performance.

Power range:

1.5-4KW (1 Phase 220V input, 3 Phase 220V output)

1.5-7.5KW (3 Phase 380V input, 3 Phase 380V output)

Installation & Using



SD100 Servo Drive



Compact Size

Easy Debug

Pulse Control

Strong Stability



Power cable

Encoder cable

SD100 Servo Drive (220V)

Item	Model	Power (W)	Rated Current (A)	L*W*H (MM)
1	SD100-2R6P1	400	2.6	159.5*41*158.5
2	SD100-4R4P1	750	4.4	

SWM100 Servo Motor (220V)

Item	Model	Power (W)	Rated Current (A)	Specification
1	SWM100-06040M30B61-A1H1	400	2.65	Rated Speed: 3000RPM Rated Torque: 1.27
2	SWM100-08075S30B61-A1Y1	750	4	Rated Speed: 3000RPM Rated Torque: 2.4

CNC

Textile machinery

Wood carving

Food packing





SOWAKAM

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