

53100 Series Inverter Multi Function Open-loop Vector Control (IM)









Company Profile

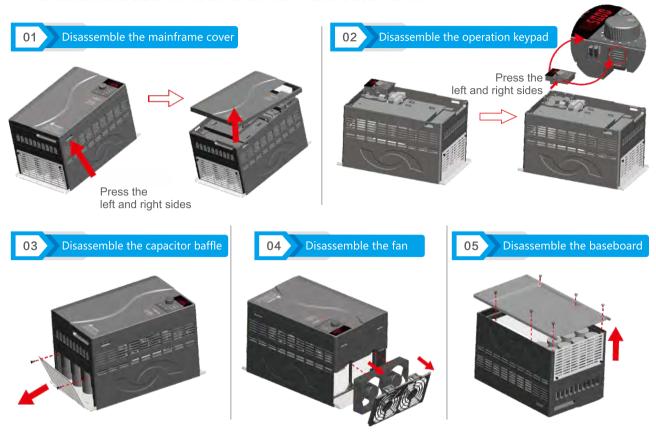
Savch Electric Co., Ltd was set up in Quanzhou, Fujian province in 2001 and established a research and development center in Shanghai. It is one of the first few companies to develop and produce motor drives in China. In 2005, it became China's top ten inverter brands. The company relies on a strong R & D team and world-class power electronics production and quality control system (OEM for top international brand) to provide customers with high-performance servo drives, inverters, computer controllers and other industrial control products.

The company focuses on the frontier technology fields of "industrial intelligence, energy saving, green energy", and adheres to the core goal of "creating value for customers", and establishes a technical R&D team that highly conforms to customer industry characteristics and highly integrated mechatronics and provide more efficient and resource-efficient system solutions for various industries customers. For the pass years, the company has established a global equal and close cooperation agent system, and customer service system with user satisfaction as an indicator, widely used in ceramics, packaging, textile, dyeing and finishing, engineering upgrading, lifting, road, CNC machine tools, glass, mining, petroleum, shipbuilding, military and even farming and animal husbandry and other equipment fields.



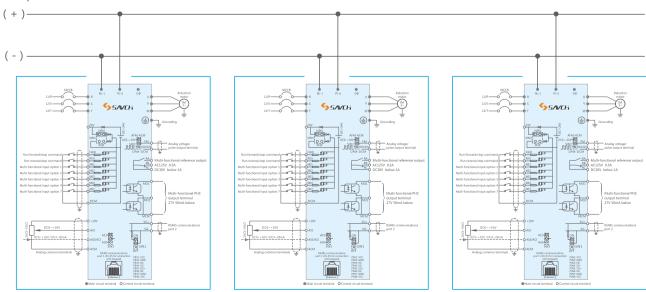
For More Convenient Maintenance

- Integrate into the easy disassembly modularization factor.
- The maintenance is easier and it is convenient to sink heat and clean internal.



Common DC Bus

• All the power range support the common DC bus application, to share with the energe, and reduce the braking resistor power or cancel the brake resistor.





More Comprehensive Protection

- More optimized module temperature management. If the temperature of environment is high or over loading, it can protect more timely and considerately.
- More optimized short-circuit protection.
- 220V with power range below 4.0kW and 440V with power range below 5.5kW is built in with charging resistor overheat protection unit (for other power range, it is optional).

More Flexible Operation

• External input terminal can select the two working modes, NPN, PNP to connect with external PLC and touch screen neatly.

Characteristics

- High start torque, available to achieve 150% of torque output on low speed 1.0Hz.
- Control method: V/f control, dynamic torque vector control.
- Support many frequency setting methods: digital setting, analog quantity setting, pulse setting, PID setting, communication setting etc.
- 16 sections, multi-velocity control and PID control.
- Support DC braking of stop and external terminal control DC braking.
 With overtorgue detection.
- With auto voltage adjustment. The output voltage would be stabilized automatically when the grid voltage varies.
- With jump frequency control, make the system stabler and more reliable on mechanic resonance.
- The input and output terminal are auto-program, user could make many working modes according to the needs.
- Attached with many fault protection functions: converter unit protection, overvoltage protection, overcurrent protection, overload protection, overheat pretection etc.

Various Application

- S3100 series is new generation, Multi-function, Vector control inverters.
- It could widely applied on the fields that have high requirements on the speed control accuracy, torque response speed, low frequency output performance.

Function Description

• Multi terminal ports:

	•
AVI	DC 0~+10V input
AUI/ACI	DC 0~+10V/DC 4~20mA

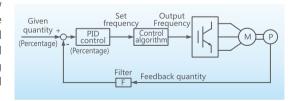
FM	analog output AFM/ pulse output DFM
MI7	pulse input

- Plentiful application/protection:
 - Curve V/f pattern3 points
 - With the function to select another motor
 - Check PID cable break or not
 - Data change can be checked
- Analog fault output
- With "S" acceleration and deceleration pattern for selection
- Droop control can be applied multi motors to synchronous transmission
- Monitor the operating station
- Maintenance information can be checked
- Alarm information can be cheched

Enriched PID control:

■ I/O check

The PID regulator is used for temperature, pressure, and flow control, and adds functions such as deviation alarm and absolute value alarm output. The PID output limiter and the integral hold/reset signal make the PID control function more substantial and easier to use. When the PID regulator is used for the floating roller type tension control, the PID output limiter and the integral hold/reset signal can be used and show its advantages.

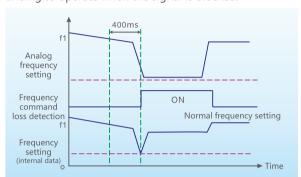


• Brake signal function:

When the brake is released, after the motor is operated, the torque is detected and the signal is output. When the brake is put into operation, the brake is applied in time to reduce the wear of the mechanical brake.

Command loss detection:

The frequency signal (0~10V, 4~20mA, multi-speed running signal, communication signal, etc.) is blocked due to mechanical vibration of the device, or poor circuit contact, disconnection, etc., and the command disappears. At this time, the inverter output command loss signal, using the detection command loss function, can pre-set the inverter output frequency when the command is lost, effectively preventing the motor from continuing to operate when the signal is blocked.

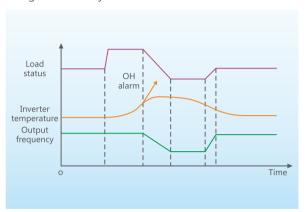


- Support LCD and computer host computer:
 - In the optional accessories, we have prepared a multi-function operation keypad (extended use) for you, a large-backlit LCD screen with high visibility. In addition, the LCD can display the operation guide, which is easy to read (Copy function).



Overload avoidance:

If the foreign matter enters the fan or the pulley, it will cause the load to increase, the internal temperature of the inverter rises sharply, or the ambient temperature rises sharply, etc., causing the inverter to be in an overload state. The overload function can be avoided to reduce the motor speed and ensure that it is not stop running continuously.



You can download the Windows interface software from our website freely to easily set up and manage the function code.



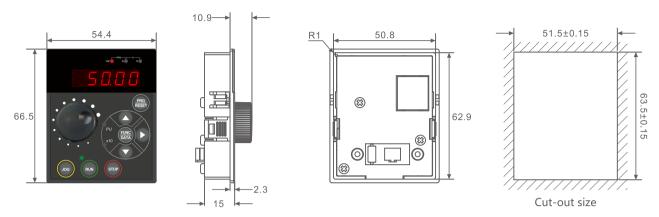
■ Equipped with analog inverter output alarm information function, it can easily confirm and use the sequential operation status of peripheral devices and inverter in the control cabinet.

Operation Keypad

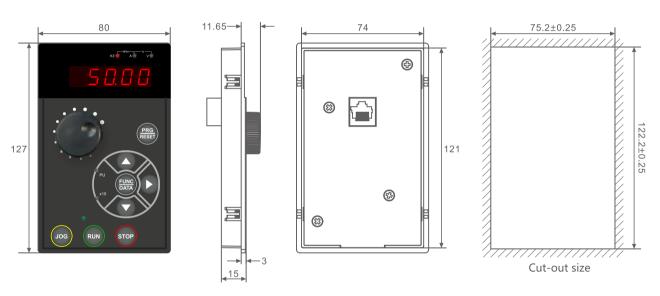




- Dimension
 - Below 18.5kW (include 18.5kW)



■ Above 22kW (include 22kW)



Note: the operation can extend by common cable (8 cores)

Model Description 3100 SAVCH **Product** 2T: 3 ph 220V 0.4: 0.4kW G: General series (Note: 2T2.2G or below P: Light load 0.75: 0.75kW with compatibility of name 1.5: 1.5kW single phase) 2.2: 2.2kW 4T: 3 ph 440V 15: 15kW 500: 500kW

Product Specification

• Common specification

		Item	Explanation						
0	S	Max. frequency	25 to 500Hz (changeable setting, Vector control maximum output frequency of 200Hz) (the maximum output frequency of high frequency dedicated type is 1000Hz)						
utpu	Setting	Base frequency							
It fre	g rai	Starting frequency	0.1 ~ 60.0Hz (changeable setting)						
Output frequency	range	Carrier frequency	$0.75 \sim 12$ kHz Note:The carrier frequency may automatically drop depending upon the surrounding temperature or output current to protect the inverter. (The automatic drop function can be disabled)						
	Set	tting resolution	 Keypad setting: 0.01Hz (99.99Hz or less), 0.1 Hz (100.0 to 500.0Hz) Link operation setting: 1/20000 of maximum frequency or 0.01Hz (fixed) 						
	C	ontrol method	V/f control Dynamic torque vector control						
		tage/frequency naracteristics	 Possible to set output voltage at base frequency and at maximum frequency AVR control ON/OFF selectable. Non-linear V/f pattern with three arbitrary points 						
	Т	orque boost	 Auto torque boost (for constant torque load) Manual torque boost: Desired torque boost (0.0 to 20.0%) can be set Select application load with function (Constant torque load or variable torque load) 						
	S	tarting torque	When the slip compensation and torque boost occurs, the torque can exceed 150%						
	Star	t/stop operation	Keypad (RUN/STOP keys), external signals (run forward/run reverse, run/stop command etc.,), Communications link (RS485).						
	Fre	quency Setting	Keypad (Potentiometer adjustment, or by UP/DOWN button to set) Analog input: DC0 to +10V/0 to +100% (terminal AVI, AUI)						
		Acceleration/ celeration time	0.00 to 3600s, Linear/S-curve/curvilinear						
	;	Stop control	 Running continued at the stop frequency, coast-to-stop, or force to stop DC braking:Braking starting frequency (up to 60Hz), time (up to 30.0s), and operation level (up to 100%). 						
Control		to-restart after mentary power failur	 Alarm at power failure, alarm when power again Restart at the frequency at which the power failure occurred, restart at the starting frequency 						
<u>o</u>	С	Hardware urrent limiter	Settable Current limiting action value Over current limiting by hardware (it can be canceled)						
	Т	orque limiter	Torque limit value (200%) Torque limiter 1/2, torque limiter enabled/disabled, analog torque limit value.						
		Control functions	 Analog input adjustment (gain/offset/filter time constant), frequency limiter (high and low), bias frequency, jump frequency, 2nd, motor setting, universal DI, universal DO, universal AO, rotational direction limitation. Overload prevention control, slip compensation, over voltage stall prevention, droop control, PID process control, PID dancer control, auto energy saving function. Auto-tuning (Operating modes: motor load, do not connect the mechanical transmission parts) Fault restart, command loss detection. 						
		Digital input	Run/stop forward and reverse command, select multi-frequency, select ACC/DEC time, Enable 3-wire operation, Coast-to-stop command,reset alarm, enable external alarm trip, ready for jogging, select frequency command 2/1, select motor, enable DC braking, select torque limiter level, UP/DOWN command, enable data change with keypad, cancel PID control, switch normal/inverse operation, universal DI, force to stop, reset PID integral and differential components, hold PID integral component, pulse train input, pulse train sign, select droop control.						
	Tra	ansistor output	Inverter running, frequency arrival signal, frequency detected, under voltage detected (inverter stopped), inverter output limiting, auto-restarting after momentary power failure, motor overload early warning, keypad operation, inverter ready to run, inverter output limiting with delay, auto-resetting, universal DO, heat sink overheat early warning, reference loss detected, inverter operating, overload prevention control, current detected, PID alarm, Motor switch, brake signal, alarm relay contact output (for any fault)						
	Д	nalog output	 AFM: output a selected signal with DC voltage (0 to +10V) DFM: output the selected signal by the way of pulse (the pulse of the highest frequency is 25~6000p/s). (FM terminal switches AFM/DFM by onnecting) 						



• Common specification (continue)

	Item	Explanation
Control	Analog output	Output frequency (before slip compensation, after slip compensation), output current, output voltage, output torque, load factor, input power, PID feedback amount, DC link bus voltage, universal AO, motor output, PID command , PID output.
Indication	Running/ stopping	Speed monitor (reference frequency (Hz), output frequency, motor speed, load shaft speed). Output current, output voltage, torque calculation value, input power, PID command value, PID feedback amount, PID output, load factor, motor output
tion	Alarm information	Alarm history: Saves and displays the last 4 alarm code and their detailed description
	Communications	RS485 COM port 1 (for keypad connection), RS485 COM port 2 (on terminal block)
Others	Protection against momentary power failure	Upon detection of a momentary power failure lasting more than 15 ms, this function stops the inverter output. If restart after momentary power failure is selected, this function invoke a restart process if power is restored within a predetermined period (allowable momentary power failure time).

• Standard Specification

■ 220V single phase/three phase series

	Item		Specifications										
Туре	e(S3100-2T***G) ^(*1)		0.4	0.75	1.5	2.2	4.0	5.5	7.5				
	ninal applie W](rated o		0.4	0.75	1.5	2.2	3.7	5.5	7.5				
ZD 00	Rated pov	ver[kVA] (*2)	1.1	1.9	3.0	4.1	6.4	9.5	12				
Rated output	Volta	age [V]	3 ph 200 ~ 240V (With AVR function)										
outp	Rated c	urrent [A]	3	5	8	11	17	25	33				
but	Overload	d capability	150%-1min										
	Voltage,	frequency	200~240V,50Hz/60Hz										
Inp		frequency ations	Voltage: ±10% (Interphase unbalance rate is within 2%, frequency: +5~-5%)										
Input power	rated input	three phase	3.1	5.3	9.5	13.2	22.2	31.5	42.7				
7	current [A]	single phase	5.4	9.7	16.4	24.8	Single pha	ase input is not	supported				
Braking	Braking	transistor	Standard built-in										
	Enclosu	ire			IF	P20 closed typ	e						
(Cooling me	ethod				Fan cooling							

^{(*1) 2}T2.2G and below the power can be compatible single, select any two power as input terminal.

^(*2) Rated capacity is calculated by assuming the output rated voltage as 220V.

■ 440V three phase series

	Item	Specifications													
Туре	(S3100-4T***G/P)	0.75	1.5	2.2	4.0	5.5	7.5	11	15	18.5	22	30	37	45	55
	minal applied motor :W](rated output)	0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22	30	37	45	55
곴	Rated power[kVA](*1)	1.9	2.8	4.1	6.8	9.9	13	18	22	29	34	45	57	69	85
atec	Voltage [V]		3 ph 380~460V (With AVR function)												
Rated output	Rated current [A] ^(*4)	2.5 (3.2)	3.7 (4.7)	5.5 (6.5)	9.0 (11.8)	13 (15.0)	18 (21.7)	24 (28.5)	30 (35.4)	39 (45)	45 (60)	60 (75)	75 (85)	91 (112)	112 (150)
put	Overload capability ^(*4) G Specifications: 150%-1min (P Specifications: 120%-1min)														
	Voltage, frequency		380 ~ 460V, 50Hz/60Hz												
=	Voltage, frequency variations		Voltage: ±10% (Interphase unbalance rate is within 2%, frequency:+5~-5%)												
Input power	Required power supply capacity (with DCR) [kVA] (*2)		- 40 48 58 7								71				
ower	Rated input current (with DCR)[A]	3.1	5.9	8.2	13	17.3	23.2	33	43.8	52.3	60.6			_	
	Rated input current (with DCR)[A]		- 62 76 90									90	105		
Ві	raking transistor	Standard built-in										-	_		
DO	— Mod									Model	el customization				
	IP20 closed type										IP00				
(Fan co	oling								

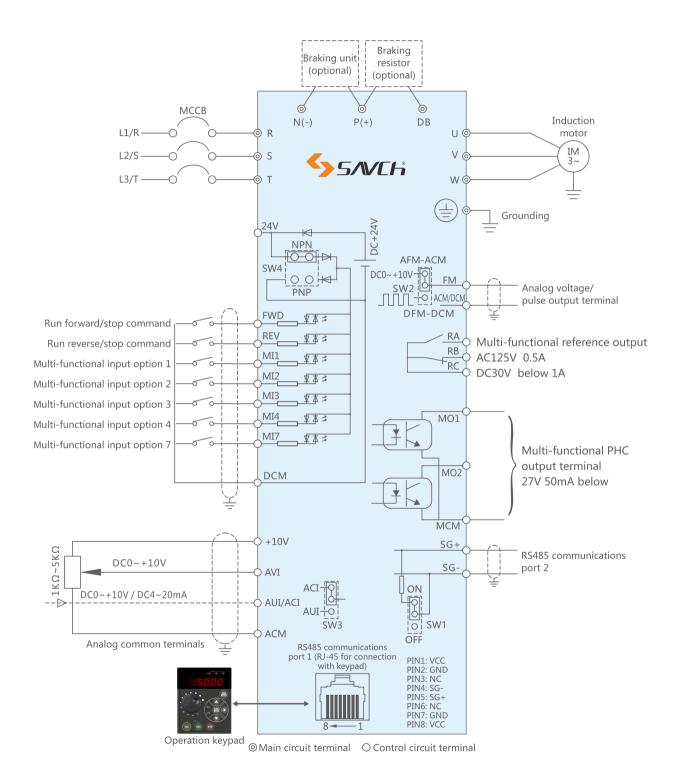
	Item	Specifications												
Туре	e (S3100-4T***G/P)	75	90	110	132	160	200	220	280	315	355	400	500	
	ninal applied motor W](rated output)	75	90	110	132	160	200	220	280	315	355	400	500	
Ra	Rated power[kVA](*1)	114	134	160	192	231	287	316	396	445	495	563	741	
ted	Voltage [V]		3 ph 380~460V (With AVR function)											
Rated output	Rated current [A] (*4)	150 (176)	176 (210)	210 (253)	253 (304)	304 (377)	377 (415)	415 (520)	520 (585)	585 (650)	650 (740)	740 (820)	880	
out	Overload capability ^(*4)		G Specifications: 150%-1min (P Specifications: 120%-1min)											
	Voltage, frequency		380 ~ 460V, 50Hz/60Hz											
=	Voltage, frequency variations	Voltage: ±10% (Interphase unbalance rate is within 2%, frequency:+5~-5%)												
Input power	Required power supply capacity (with DCR) [kVA] (*2)	96	114	140	165	199	248	271	347	388	436	489	611	
ower	Rated input current (with DCR)[A]		_											
	Rated input current (with DCR)[A]	140	160	210	240	290	370	410	500	559	665	785	928	
В	raking transistor		-											
D	C reactor (DCR)						Optio	na l (*3)						
	Enclosure						IP	00						
(Cooling method						Fan co	ooling						

- (*1) Rated capacity is calculated by assuming the output rated voltage as 440V.
- (*2) Obtained when a DC reactor (DCR) is used.
- (*3) DC reactor (DCR) is optional part, inverter of 110KW or above must use together with the DC reactor (DCR).
- (*4) Brackets "(****)" in the table is the content for the P-type machine rated current and overload capacity.



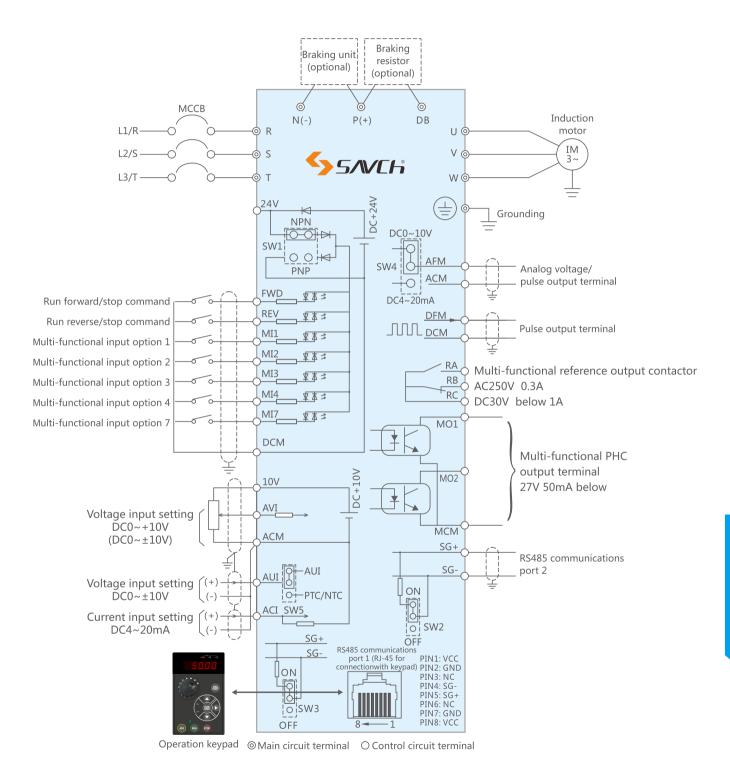
Basic Wiring Diagram

• Below 18.5kW (include 18.5kW)



Note: When the communication port 1 of RS485 has not connected with operator, it can communicate with PC.

• Above 22kW (include 22kW)



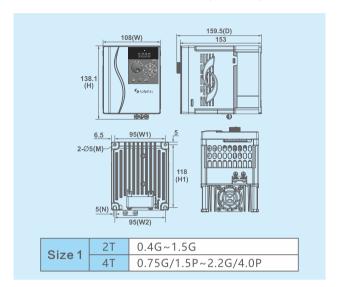
(Note 1) Remove the shorting chip between terminal P1 - P(+) before connecting if it's used to connect DC reactor (DCR) (accessories). Inverter of 110KW or above must use DC reactor (DCR).

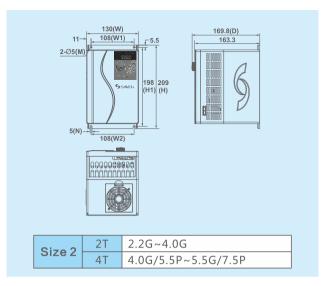
(Note 2) In the inverter below 22kW built-in with brake unit. Make sure to remove the connection to the built-in braking unit when connecting external braking resistor (accessories). Please must select modes according to user manual. (Note 3) When the communication port 1 of RS485 has not connected with operator, it can communicate with PC.

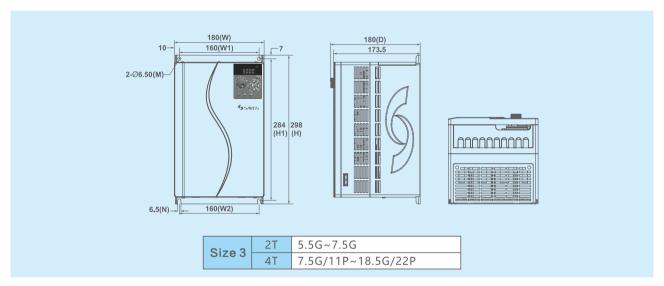


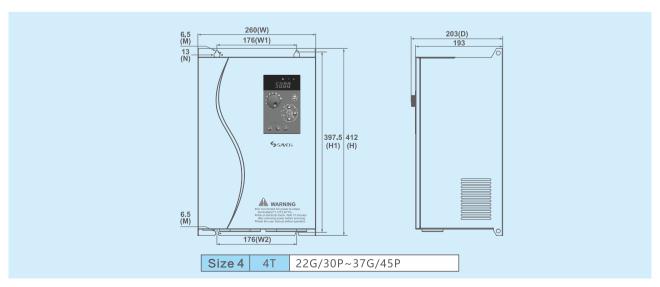
External Dimensions

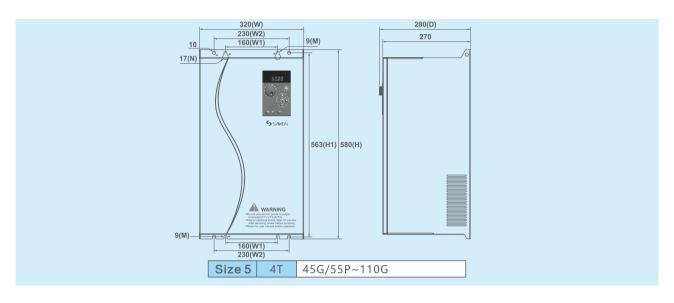
• External Dimensions of inverter (Unit: mm)

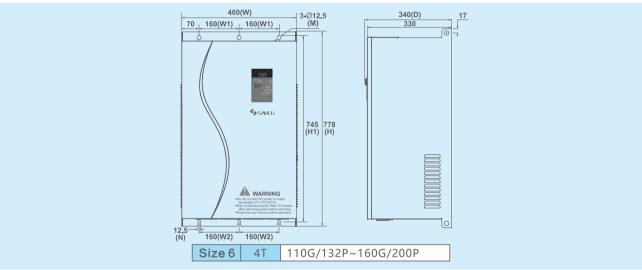


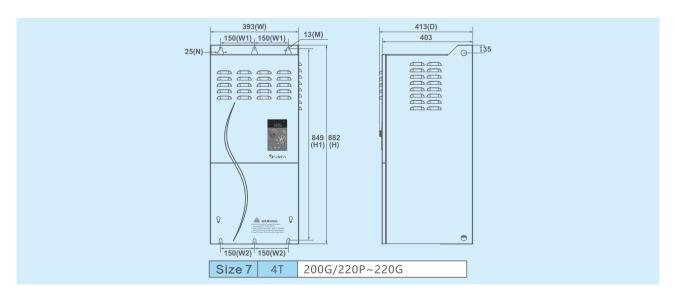




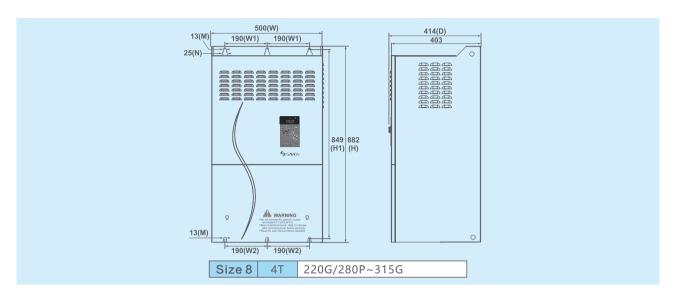


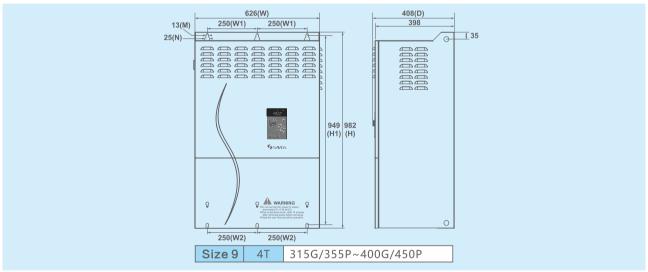


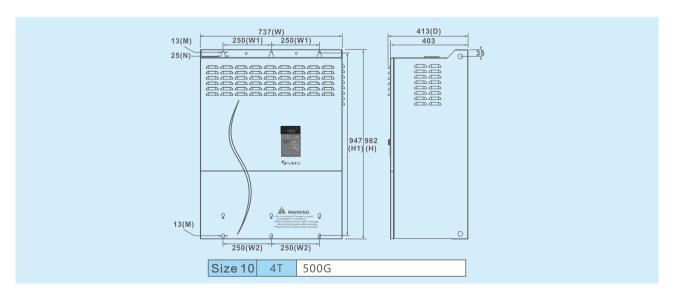












• Inverter Size (Unit: mm)

Inverter Type		147	1444	1446						
S3100-2T1.5G S3100-4T1.5G/1.5P S3100-4T2.2G/4.0P S3100-4T5.5G/7.5P S3100-4T5.5G/7.5P S3100-4T1.5G/7.5P S3100-4T1	Inverter Type	W	W1	W2	Н	H1	D	М	N	Fig.
S3100-2T1.5G S3100-4T1.5G/2.2P S3100-4T2.2G/4.0P S3100-4T5.5G/7.5P S3100-2T5.5G S3100-2T5.5G S3100-4T5.5G/7.5P S3100-4T5.5G/7.5P S3100-4T1.5G/3.2P S3100-4T5.5G/7.5P S3100-4T1.5G/3.2P S3100-4T5.5G/7.5P S3100-4T1.5G/3.2P S3100-4T2.5G/3.2P S3100-4T2.5G/3.2P S3100-4T2.5G/3.2P S3100-4T2.5G/3.2P S3100-4T3.5G/3.2P	S3100-2T0.4G									
S3100-4T0.75G/1.5P S3100-4T2.2G/4.0P S3100-4T2.0G/1.5P S3100-4T2.0G/1.5P S3100-4T5.6G/7.5P S3100-4T5.6G/7.5P S3100-4T5.6G/7.5P S3100-4T5.6G/7.5P S3100-4T1.6G/18.5P S3100-4T1.6G/18.5P S3100-4T1.6G/18.5P S3100-4T1.6G/18.5P S3100-4T1.6G/18.5P S3100-4T1.6G/18.5P S3100-4T1.6G/18.5P S3100-4T1.6G/18.5P S3100-4T2.0G/18.5P S3100-4T2.0G/18.5P S3100-4T1.6G/18.5P S3100-4T1.6G/1	S3100-2T0.75G									
S3100-4T1.5G/2.2P	S3100-2T1.5G	108	94	94	138.1	118	159.5	5	5	Size 1
S3100-4T2.2G/4.0P 108 108 209 198 169.8 5 5 5 5 5 5 5 5 5	S3100-4T0.75G/1.5P									
S3100-2T2.2G S3100-4T4.0G/5.5P S3100-4T5.5G/7.5P S3100-4T5.5G/7.5P S3100-4T1.0G/11P S3100-4T15.G/11SP S3100-4T15.G/3.5P S3100-4T2.G/3.2P S3100-4T2.G/3.2P S3100-4T2.G/3.2P S3100-4T2.G/3.2P S3100-4T3.5G/3.5P S3100-4T2.G/3.2P S3100-4T3.G/3.5P S3100-4T2.G/3.2P S3100-4T3.G/3.5P S3100-4T2.G/3.2P S3100-4T3.5G/3.5P S3100-4T3.5G/	S3100-4T1.5G/2.2P									
S3100-2T4.0G S3100-4T5.5G S3100-4T5.5G S3100-4T10G/132P S3100-4T10G/132P S3100-4T10G/132P S3100-4T10G/200P S3100-4T10G/200P S3100-4T10G/200P S3100-4T10G/200P S3100-4T10G/200P S3100-4T10G/200P S3100-4T10G/32P S3100-4T13G/36P S3100-4T13G/36P S3100-4T13G/36P S3100-4T13G/36P S3100-4T13G/36P S3100-4T13G/36P S3100-4T13G/36P S3100-4T13G/36P S3100-4T13G/36P S3100-4T35G/365P S3100-4T30G/365P S3100-4T30G/365P	S3100-4T2.2G/4.0P									
S3100-4T4,0G/5,5P S3100-4T5,5G/T,5P S3100-4T16G/132P S3100-4T10G/132P S3100-4T10G/132P S3100-4T10G/132P S3100-4T10G/200P S3100-4T10G/200P S3100-4T220G/S3PP S3100-4T220G/S3PP S3100-4T220G/S3PP S3100-4T220G/S3PP S3100-4T220G/S3PP S3100-4T220G/S3PP S3100-4T35G/15P S3100-4T30G/15P S3100-4T35G/355P S3100-4T30G/450P S3100	S3100-2T2.2G									
S3100-4T4.0G/5.5P S3100-2T5.5G S3100-2T7.5G S3100-4T16.5G S3100-4T16.5G S3100-4T45.5G/22P S3100-4T3.5G/22P S3100-4T3.5G/3P S3100-4T5.5G/3P S3100-4T5.6G/3P S3100-4T5.6G/3P S3100-4T0.6G/3DP S3100-4T	S3100-2T4.0G	130	108	108	209	198	169.8	5	5	Size 2
S3100-2T5.5G S3100-2T7.5G S3100-4T7.5G/11P S3100-4T11G/15P S3100-4T15G/18.5P S3100-4T18.5G/22P S3100-4T36G/37P S3100-4T36G/55P S3100-4T5G/75P S3100-4T75G/90P S3100-4T10G S3100-4T10G/32P S3100-4T10G/32P S3100-4T20G/20P S3100-4T20G/20P S3100-4T20G/20P S3100-4T20G/20P S3100-4T20G/315P S3100-4T20G/315P S3100-4T315G S3100-4T315G/355P S3100-4T315G/355P S3100-4T315G/355P S3100-4T315G/355P S3100-4T315G/355P S3100-4T315G/355P S3100-4T35G/355P S3100-4T36G/355P S3100-4T35G/355P S3100-4T36G/355P S3100-4T36G/355P S3100-4T35G/400P S3100-4T36G/355P S3100-4T40G/450P S3100-4	S3100-4T4.0G/5.5P									
S3100-2T7.5G S3100-4T7.5G/11P S3100-4T11G/15P S3100-4T15G/18.5P S3100-4T22G/30P S3100-4T35G/37P S3100-4T36G/55P S3100-4T35G/55P S3100-4T55G/75P S3100-4T10G/132P S3100-4T10G/32P S3100-4T10G/32P S3100-4T10G/32P S3100-4T10G/32P S3100-4T10G/32P S3100-4T132G/160P S3100-4T32G/160P S3100-4T32G/30P S3100-4T32G/35P S3100-4T35G/35SP S3100-4T35G/35	S3100-4T5.5G/7.5P									
S3100-4T7.5G/11P S3100-4T11G/15P S3100-4T15G/18.5P S3100-4T2GG/30P S3100-4T35G/37P S3100-4T35G/55P S3100-4T35G/55P S3100-4T32G/160P S3100-4T10G/132P S3100-4T10G/32P S3100-4T10G/32P S3100-4T32GG/60P S3100-4T32GG/60P S3100-4T35G/20P S3100-4T35G/35P S3100-4T35G/35SP S3100-4T35G/35SP S3100-4T35G/35SP S3100-4T35G/35SP S3100-4T35G/35SP S3100-4T35G/35SP S3100-4T35G/35SP S3100-4T35G/400P S3100-4T30G/450P S3100-4T30G/	S3100-2T5.5G									
S3100-4T11G/15P S3100-4T15G/18.5P S3100-4T18.5G/22P S3100-4T22G/30P S3100-4T30G/37P S3100-4T30G/37P S3100-4T36J/55P S3100-4T36J/55P S3100-4T36J/55P S3100-4T36J/55P S3100-4T30G/110P S3100-4T10G S3100-4T10G S3100-4T10G S3100-4T10G/32P S3100-4T132G/160P S3100-4T120G/220P S3100-4T220G S3100-4T220G/280P S3100-4T220G/280P S3100-4T280G/315P S3100-4T35G/355P S3100-4T355G/400P 626 Z50 Z50 P82 P49 A08 T3 Z5 Size P S3100-4T355G/400P S3100-4T300G/4T30G/4	S3100-2T7.5G						180			
S3100-4T15G/18.5P S3100-4T15G/18.5P S3100-4T22G/30P S3100-4T35G/35P S3100-4T35G/35P S3100-4T35G/355P S3100-4T280G/315P S3100-4T35G/355P S3100-4T355G/400P S3100-4T300G/450P S3100-4T300G	S3100-4T7.5G/11P	180	160	160	298	284		6.5	6.5	Size 3
S3100-4T18.5G/22P 260 176 176 412 397.5 203 6.5 13 Size 4	S3100-4T11G/15P									
S3100-4T22G/30P 260 176 176 412 397.5 203 6.5 13 Size 4 S3100-4T37G/45P 33100-4T45G/55P 33100-4T55G/75P 320 160 230 580 563 280 9 17 Size 5 S3100-4T90G/110P 320 160 230 580 563 280 9 17 Size 5 S3100-4T10G/132P 33100-4T110G/132P 33100-4T110G/132P 340 12.5 12.5 Size 6 S3100-4T160G/200P 393 150 150 882 849 413 13 25 Size 7 S3100-4T220G/280P 33100-4T220G/315P 500 190 190 882 849 414 13 25 Size 8 S3100-4T315G 53100-4T315G/355P 53100-4T355G/400P 626 250 250 982 949 408 13 25 Size 9 S3100-4T400G/450P 460 250 250 982 949 408 13 25 Size 9	S3100-4T15G/18.5P									
S3100-4T30G/37P 260 176 176 412 397.5 203 6.5 13 Size 4	S3100-4T18.5G/22P									
S3100-4T37G/45P S3100-4T45G/55P S3100-4T75G/90P S3100-4T110G S3100-4T120G S3100-4T20G S3100-4T220G S3100-4T220G S3100-4T220G S3100-4T220G S3100-4T220G S3100-4T25G/35P S3100-4T35G S3100-4T35G/355P S3100-4T35G/355P S3100-4T355G/400P S3100-4T355G/400P S3100-4T35G/350P S3100-4T355G/400P S3100-4T355G/400P S3100-4T355G/400P S3100-4T355G/400P S3100-4T30G/450P S3100-4T30G/450P S3100-4T400G/450P S3100-4T400G/4	S3100-4T22G/30P	260	176			397.5	203	6.5	13	
S3100-4T45G/55P 320 160 230 580 563 280 9 17 Size 5 S3100-4T90G/110P 320 160 230 580 563 280 9 17 Size 5 S3100-4T110G 33100-4T110G/132P 460 160 160 778 745 340 12.5 12.5 Size 6 S3100-4T160G/200P 393 150 150 882 849 413 13 25 Size 7 S3100-4T220G/280P 33100-4T280G/315P 500 190 190 882 849 414 13 25 Size 8 S3100-4T315G 33100-4T315G/355P 626 250 250 982 949 408 13 25 Size 9 S3100-4T400G/450P 626 250 250 982 949 408 13 25 Size 9	S3100-4T30G/37P			176	412					Size 4
S3100-4T55G/75P S3100-4T75G/90P S3100-4T90G/110P S3100-4T110G S3100-4T110G/132P S3100-4T160G/200P S3100-4T200G/220P S3100-4T200G/220P S3100-4T20G S3100-4T25G/355P S3100-4T355G/400P S3100-4T355G/400P S3100-4T355G/400P S3100-4T355G/400P S3100-4T400G/450P S3100-4T400G/450P S3100-4T400G/450P S3100-4T400G/450P S3100-4T400G/450P S3100-4T355G/400P S3100-4T355G/400P S3100-4T400G/450P S	S3100-4T37G/45P									
S3100-4T75G/90P 320 160 230 580 563 280 9 17 Size 5 S3100-4T110G S3100-4T110G/132P 460 160 160 778 745 340 12.5 12.5 Size 6 S3100-4T160G/200P 393 150 150 882 849 413 13 25 Size 7 S3100-4T220G/280P 33100-4T280G/315P 500 190 190 882 849 414 13 25 Size 8 S3100-4T315G S3100-4T315G/355P 500 250 982 949 408 13 25 Size 9 S3100-4T400G/450P 626 250 250 982 949 408 13 25 Size 9	S3100-4T45G/55P									
S3100-4T190G/110P S3100-4T110G/132P S3100-4T132G/160P S3100-4T160G/200P S3100-4T200G/220P S3100-4T220G S3100-4T220G S3100-4T220G/280P S3100-4T280G/315P S3100-4T315G S3100-4T315G/355P S3100-4T355G/400P S3100-4T400G/450P	S3100-4T55G/75P						280	9	17	
\$3100-4T110G 460 160 778 745 340 12.5 12.5 Size 6 \$3100-4T132G/160P 393 150 150 882 849 413 13 25 Size 7 \$3100-4T220G 393 150 190 190 882 849 413 13 25 Size 7 \$3100-4T220G/280P 500 190 190 882 849 414 13 25 Size 8 \$3100-4T315G 500 190 190 882 849 414 13 25 Size 8 \$3100-4T315G/355P 53100-4T355G/400P 626 250 250 982 949 408 13 25 Size 9	S3100-4T75G/90P	320	160	230	580	563				Size 5
\$3100-4T110G/132P 460 160 160 778 745 340 12.5 12.5 Size 6 \$3100-4T160G/200P 393 150 150 882 849 413 13 25 Size 7 \$3100-4T220G 393 150 190 190 882 849 413 13 25 Size 7 \$3100-4T280G/315P 500 190 190 882 849 414 13 25 Size 8 \$3100-4T315G 500 250 982 949 408 13 25 Size 9 \$3100-4T30G/450P 626 250 250 982 949 408 13 25 Size 9	S3100-4T90G/110P									
\$3100-4T132G/160P 460 160 160 778 745 340 12.5 12.5 Size 6 \$3100-4T160G/200P 393 150 150 882 849 413 13 25 Size 7 \$3100-4T220G 500 190 190 882 849 414 13 25 Size 8 \$3100-4T315G 500 190 190 882 849 414 13 25 Size 8 \$3100-4T315G/355P 53100-4T355G/400P 626 250 250 982 949 408 13 25 Size 9 \$3100-4T400G/450P 500 250 250 982 949 408 13 25 Size 9	S3100-4T110G									
\$3100-4T160G/200P 393 150 150 882 849 413 13 25 Size 7 \$3100-4T220G 393 150 150 882 849 413 13 25 Size 7 \$3100-4T220G/280P 500 190 190 882 849 414 13 25 Size 8 \$3100-4T315G 500 190 190 882 849 414 13 25 Size 8 \$3100-4T315G/355P 53100-4T355G/400P 626 250 250 982 949 408 13 25 Size 9 \$3100-4T400G/450P 500 250 982 949 408 13 25 Size 9	S3100-4T110G/132P									
S3100-4T200G/220P 393 150 150 882 849 413 13 25 Size 7 S3100-4T220G/280P 500 190 190 882 849 414 13 25 Size 8 S3100-4T315G 500 190 190 882 849 414 13 25 Size 8 S3100-4T315G/355P 53100-4T355G/400P 626 250 250 982 949 408 13 25 Size 9 S3100-4T400G/450P 500 250 250 982 949 408 13 25 Size 9	S3100-4T132G/160P	460	160	160	778	745	340	12.5	12.5	Size 6
\$3100-4T220G 393 150 150 882 849 413 13 25 Size 7 \$3100-4T220G/280P 500 190 190 882 849 414 13 25 Size 8 \$3100-4T315G 500 190 190 882 849 414 13 25 Size 8 \$3100-4T315G/355P 53100-4T355G/400P 626 250 250 982 949 408 13 25 Size 9 \$3100-4T400G/450P 500 250 982 949 408 13 25 Size 9	S3100-4T160G/200P									
S3100-4T220G 190 190 882 849 414 13 25 Size 8 S3100-4T315G S3100-4T315G/355P S3100-4T355G/400P 626 250 250 982 949 408 13 25 Size 9 S3100-4T400G/450P 500 250 250 982 949 408 13 25 Size 9	S3100-4T200G/220P	202	150	150	002	0.40	412	12	2.5	C: 7
S3100-4T280G/315P 500 190 190 882 849 414 13 25 Size 8 S3100-4T315G/355P S3100-4T355G/400P 626 250 250 982 949 408 13 25 Size 9 S3100-4T400G/450P S3100-4T400G/450P 250 250 982 949 408 13 25 Size 9	S3100-4T220G	393	130	150	002	049	415	13	25	Size /
S3100-4T315G S3100-4T315G/355P S3100-4T355G/400P 626 250 250 982 949 408 13 25 Size 9 S3100-4T400G/450P	S3100-4T220G/280P									
S3100-4T315G/355P 626 250 250 982 949 408 13 25 Size 9 S3100-4T400G/450P	S3100-4T280G/315P	500	190	190	882	849	414	13	25	Size 8
S3100-4T355G/400P 626 250 250 982 949 408 13 25 Size 9 S3100-4T400G/450P	S3100-4T315G									
S3100-4T400G/450P	S3100-4T315G/355P									
	S3100-4T355G/400P	626	250	250	982	949	408	13	25	Size 9
S3100-4T500G 737 250 250 982 947 413 13 25 Size 10	S3100-4T400G/450P									
	S3100-4T500G	737	250	250	982	947	413	13	25	Size 10

COOPERATIVE CLIENT





























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Qualification =

Received ISO9001 and CE recognition

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