



High-Performance Standard Inverter **S100**

0.4~2.2kW 1-Phase 200~230Volts

0.4~15kW 3-Phase 200~230Volts

0.4~75kW 3-Phase 380~480Volts

LS'IS

Strong power with a compact size!

Powerful sensorless control, a diverse range of user friendly functions lead to the added value of machinery and equipment.

Meet the new standard inverter S100 by LSIS for the global market.



High-Performance Standard Inverter

S100

2100

Strong performance



- Sensorless control functions
- Starting torque (200%/0.5Hz)

Slim design



- Side-by-side installation
- Decreased dimensions

Standard compliance



- Built-in EMC filter
- UL and CE Standard

Safety functions



- Built-in safety functions
- Redundant input circuit

Suitable for users



- Various field networks



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Specialized Features

S100 improves user convenience with smart copier.

S Operates under unpowered condition

S Provides LED lamp feedback

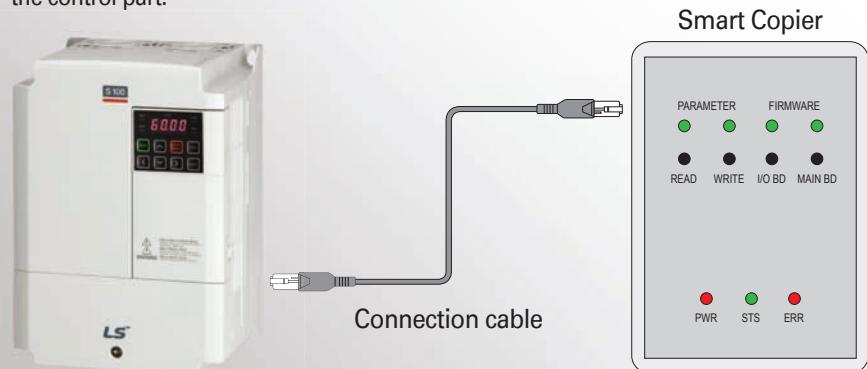
The run LED flickers during normal operation. The error LED flickers when events such as communication errors occur.

S Parameter value read/write function

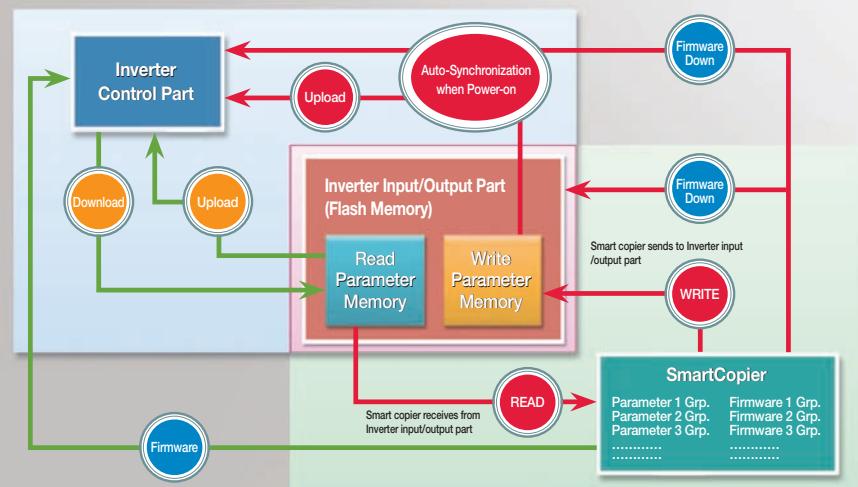
Set parameters can be copied-loaded from the inverter to the Smart Copier and vice versa simply by operating the keypad.

S Simple installation

I/O and Main firmware saved in the Smart Copier can be downloaded to both the inverter I/O and the control part.



Smart Copier Flow Chart



S Main capacitor lifecycle estimation

Estimated through monitoring the change in the capacitance value.

S Fan lifecycle estimation

Warning signal shown when fan is operated over a certain amount of hours.

S P2P function embedded

Available when input/output system is shared among inverters. (needs RS-485 wiring)

S Multi keypad function

Easy to monitor multiple inverters. (needs RS-485 wiring)

S User sequence function

Simple sequence implementation with various function block combinations.

☒ Main capacitor lifecycle estimation

Group	Code	Parameter Name	LCD Display	Defaults	Min/Max Range		Unit
PRT	60	Capacitance Current Measurement Level	CAP Diag Perc	0.0	10.0 ~ 100.0		%
PRT	61	CAP. Measurement Mode	CAP. Diag	0	0	None	%
					1	CAP. Diag 1	
					2	CAP. Diag 2	
					3	CAP. Init	
PRT	62	CAP. Heat Decision Level	CAP. Level 1	0	0.0 ~ 100.0		%
PRT	63	CAP Measurement Level	CAP. Level 2	0	0.0 ~ 100.0		%

☒ Fan lifecycle estimation

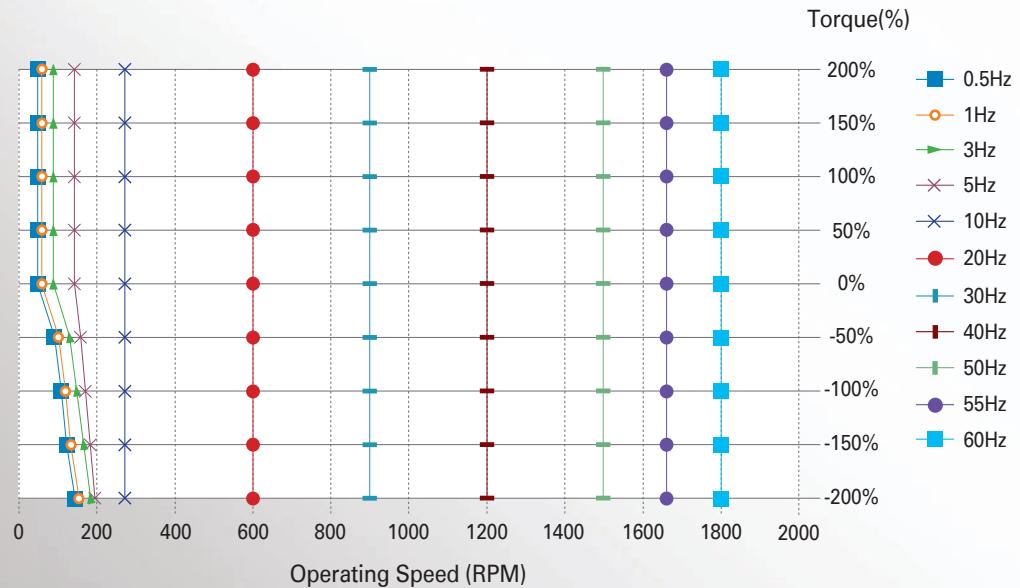
Group	Code	Parameter Name	LCD Display	Defaults	Min/Max Range		Unit
PRT	86	Fan Usage Percent	FAN Time Perc	0.0		0.0 ~ 100.0	%
PRT	87	Fan Replacement Warning Level	FAN Exchange	90.0		0.0 ~ 100.0	%
CNF	75	Cooling Fan Operation Time Initialization	FAN Time Rst	0	No	None CAP. Diag 1	-
				1	Yes		
OUT	31	Function	Relay 1	38	FAN Exchange		-
OUT	32	Function	Relay 2				
OUT	33	Function	Q1 Define				

Strong Performance

S100 is an inverter with enhanced sensorless control.

S Upgraded sensorless control

Starting torque of 200%/0.5Hz is produced and provides adequate power in the low speed region. The motor auto-tuning function is embedded and has been optimized for users to help maximize motor performance.





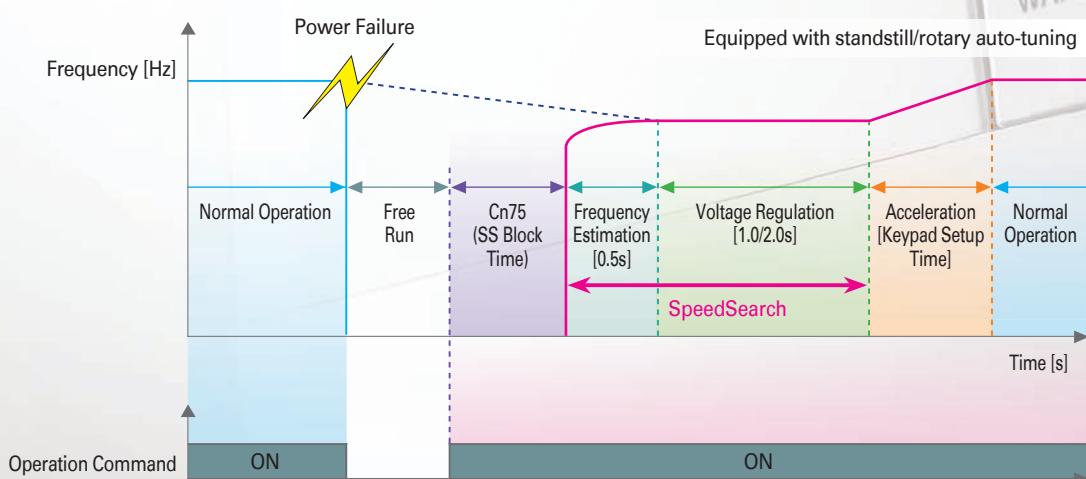
High-Performance Standard Inverter S100



S Flying start function

Fast response is secured by improving the speed estimation algorithm.

Sudden current rise or under power failure during operating under load is managed without sensor control and reactivates smoothly.



Risk of Injury or Electric Shock.
Please read the manual and follow the safety instructions before use.

Risk of Electric Shock.
Before opening the cover, disconnect the power and wait at least 10 minutes.

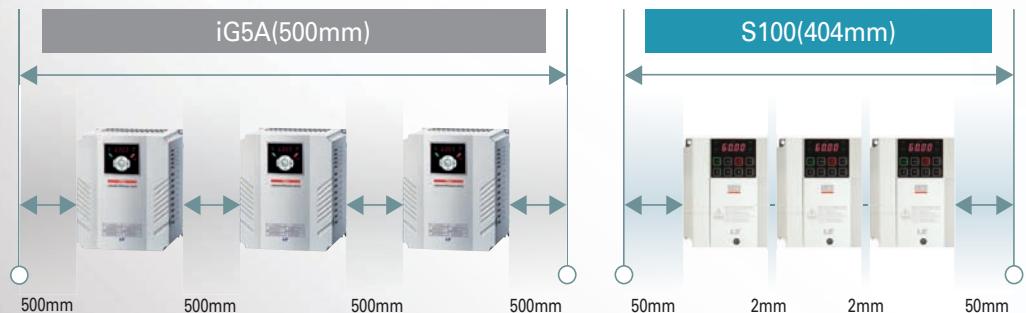
Risk of Electric Shock.
Ensure ground/earth connection is secure (properly ground/earth) the inverter.

Slim Design

S100 increases efficiency of the control panel.

S Side-by-Side installation

Minimized distance between products enables control panel size reduction when installing multiple inverters.



S Smaller size

Main parts are optimally arranged inside through the use of thermal radiation analysis and 3-dimensional design to reduce the dimensions by up to 60% (volume based) compared to the previous product (iG5A).



Size Reduction

60%

400V 11kW Basis



Standard Compliance

S100 satisfies a diverse range of demands in the global market.

S Built-in DC reactor

Effective in improving power factor and decreasing THD.

* 3-phase 400V 30~75kW

S Built-in EMC filter

Meets the electrical noise reduction regulation.

Related standards: 2nd Environment / Category C3 (Class A) – CE standard is certified
(3-phase 400V series only)

* 1-phase 200V 0.4~2.2kW / 3-phase 400V 0.4~75kW

S Faithful global compliance

Global standard compliance (UL and CE)

S Dual rating operation

It is designed to choose between heavy and normal duty operation.

Overload capacity – Heavy duty operation: 150% of rated current, 60 seconds

– Normal duty operation: 120% of rated current, 60 seconds

S Auto-tuning

Standstill/rotary auto-tuning is equipped to find motor constant without rotation under conditions where the system is installed or motor cannot rotate.



Suitable for Users

S100 supports a variety of field networks to compete in the global market.

S Various field networks

Able to deal with a variety of field networks
Easy maintenance and mounting

[Various field bus options]

- ① Profibus-DP
- ② Ethernet-IP
- ③ Modbus TCP
- ④ CANopen



S Simple cooling fan replacement

Replaceable fan without complete disassembly



S Graphic LCD keypad

Graphic LCD keypad (same as iS7 Model) is used to easily set up the parameters.

Parameters can be copied to other inverters.

One LCD keypad can be used to access every inverter connected via the built-in RS-485 communication to set up the parameters.



Possible to change parameters



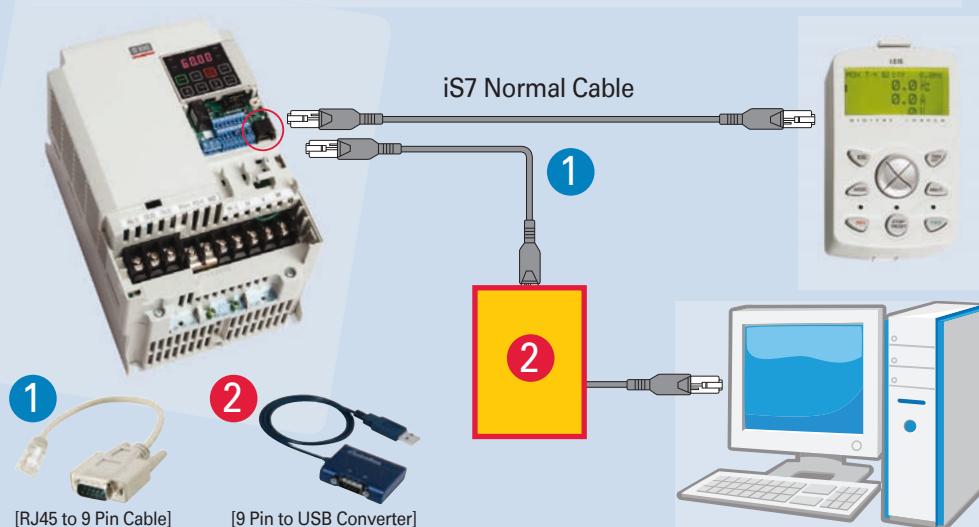
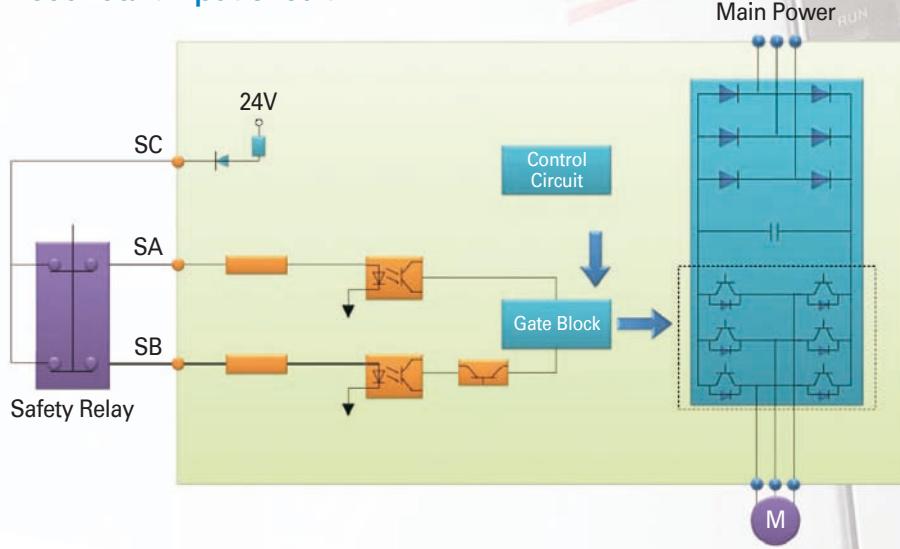
Safety Function

S100 has built-in safety functions suitable for modern safety standards.

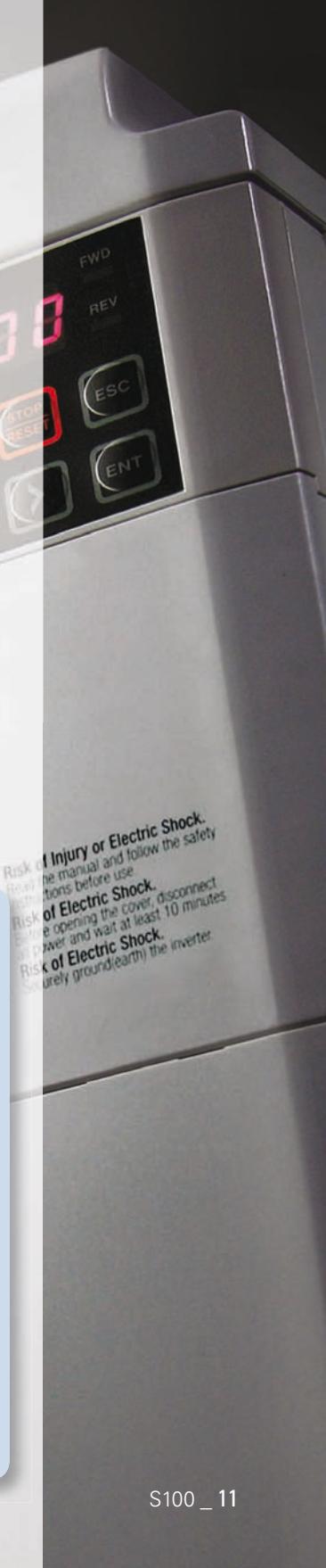
S Built-in safety functions

The Safety input function meets EN ISO 13849-1 PLd and EN 61508 SIL2 (EN50204-1, stop category 0). This feature is equipped and enables you to meet current safety standards.

Redundant input circuit



** DriveView7 connection using RJ45 port → Cable 1, RJ45 to serial, is offered from LSIS but cable2, serial to USB converter, needs to be purchased separately.





NEW

ON
L
OFF

S100

60.00



LS

You can use the inverter
under harsh ambient conditions.

S100 IP66/NEMA 4X Series

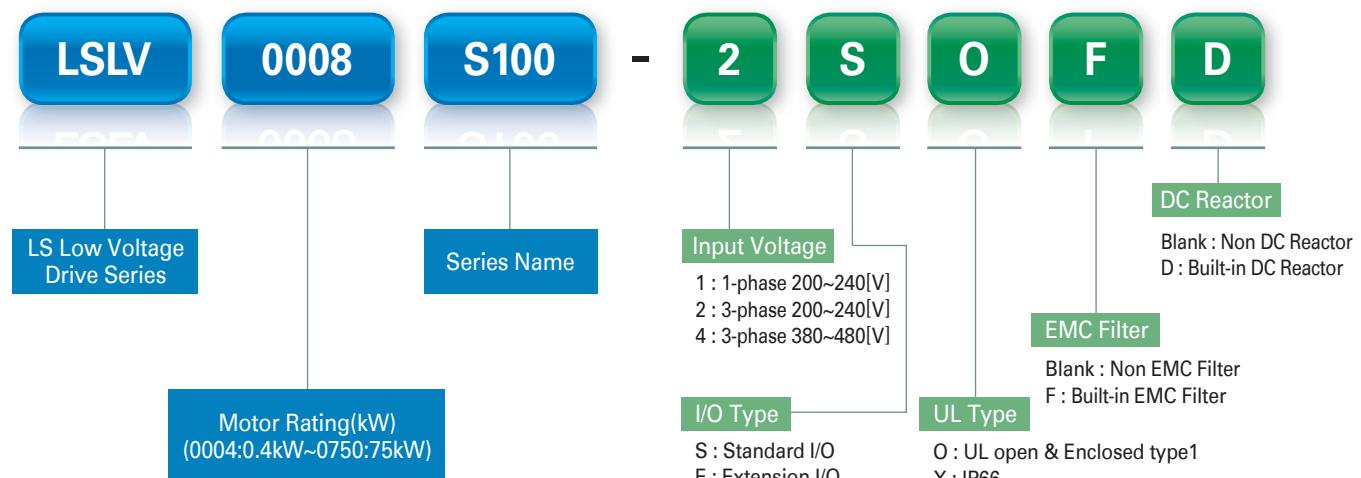
It is perfectly protected against foreign substances such as fine dust and high-pressure water spray.

- Satisfies the NEMA standard type 4X
- Satisfies the IEC 60529 standard IP66
- 200/400V 0.4~22kW

IP66/NEMA4X



Motor Rating	1-Phase 200V	3-Phase 200V	3-Phase 400V
0.4 kW	LSLV0004S100-1SOF	LSLV0004S100-2SO	LSLV0004S100-4SOF
0.75 kW	LSLV0008S100-1SOF	LSLV0008S100-2SO	LSLV0008S100-4SOF
1.5 kW	LSLV0015S100-1SOF	LSLV0015S100-2SO	LSLV0015S100-4SOF
2.2 kW	LSLV0022S100-1SOF	LSLV0022S100-2SO	LSLV0022S100-4SOF
3.7 kW		LSLV0037S100-2SO	LSLV0037S100-4SOF
4.0 kW		LSLV0040S100-2SO	LSLV0040S100-4SOF
5.5 kW		LSLV0055S100-2SO	LSLV0055S100-4SOF
7.5 kW		LSLV0075S100-2SO	LSLV0075S100-4SOF
11 kW		LSLV0110S100-2SO	LSLV0110S100-4SOF
15 kW		LSLV0150S100-2SO	LSLV0150S100-4SOF
18.5 kW			LSLV0185S100-4SOF
22 kW			LSLV0220S100-4SOF
30 kW			LSLV0300S100-4SOFD
37 kW			LSLV0370S100-4SOFD
45 kW			LSLV0450S100-4SOFD
55 kW			LSLV0550S100-4SOFD
75 kW			LSLV0750S100-4SOFD



>> Specifications

Standard Inverter with Powerful Control Performance

☒ 1-Phase 200V (0.4~2.2kW)

LSLV □□□□ S100-1 □□□		0004 ^{⑥)}		0008 ^{⑥)}		0015 ^{⑥)}		0022 ^{⑥)}					
Motor Rating ^{①)}	HP		0.5		1		1		1				
	kW		0.4		0.75		1.5		2.2				
Output Rating	Capacity [kVA] ^{②)}		1.0		1.9		3.0		4.2				
	Rated Current ^{③)}	Heavy Duty(HD)	2.5		5.0		8.0		11.0				
		Normal Duty(ND)	3.1		6.0		9.6		12.0				
	Frequency [Hz]		0~400Hz (IM Sensorless : 0~120[Hz]) ^{④)}										
Voltage [V]		3-phase 200~240V ^{⑤)}											
Input Rating	Voltage [V]		1-phase 200~240VAC (-15% ~ +10%)										
	Frequency [Hz]		50~60Hz(±5%)										
	Rated Current [A]	Heavy Duty(HD)	2.0		5.8		7.5		11.0				
		Normal Duty(ND)	3.9		7.3		10.8		13.9				
Weight [kg]			0.9		1.3		1.5		2.0				

☒ 3-Phase 200V (0.4~15kW)

LSLV □□□□ S100-2 □□□		0004 ^{⑥)}	0008 ^{⑥)}	0015 ^{⑥)}	0022 ^{⑥)}	0037 ^{⑥)}	0040 ^{⑥)}	0055	0075	0110	0150	
Motor Rating ^{①)}	HP		0.5	1	2	3	5	5.5	7.5	10	15	
	kW		0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	
Output Rating	Capacity [kVA] ^{②)}		1.0	1.9	3.0	4.2	6.1	6.5	9.1	12.2	17.5	
	Rated Current ^{③)}	Heavy Duty(HD)	2.5	5.0	8.0	11	16	17	24	32	46	
		Normal Duty(ND)	3.1	6.0	9.6	12	18	18	30	40	56	
	Frequency [Hz]		0~400Hz (IM Sensorless : 0~120[Hz]) ^{④)}									
Voltage [V]		3-phase 200~240V ^{⑤)}										
Input Rating	Voltage [V]		3-phase 200~240VAC (-15% ~ +10%)									
	Frequency [Hz]		50~60Hz(±5%)									
	Rated Current [A]	Heavy Duty(HD)	2.0	5.8	7.5	11.0	18.9	21.0	22.1	28.6	44.3	
		Normal Duty(ND)	3.9	7.3	10.8	13.9	24.0	24.0	28.6	41.2	54.7	
Weight [kg]			0.9	0.9	1.3	1.5	2.0	2.0	3.3	3.3	4.6	
Weight [kg]												

^{①)} Maximum applicable capacity is indicated in case of using a 4-pole standard motor (200 and 400V classes are based on 220 and 440V, respectively).

^{②)} For the rated capacity, 200 and 400V class input capacities are based on 220 and 440V, respectively.

^{③)} The rated output current is limited depending on the setup of carrier frequency (CN-04).

^{④)} If the control mode (DR 09 Control Mode) is selected as No. 4 IM Sensorless, you can set up to 120Hz.

^{⑤)} Maximum output voltage is not performed above the power supply voltage. Output voltage can be set arbitrarily below the power supply voltage.

^{⑥)} To be released.

3-Phase 400V (0.4~22kW)

LSLV □□□□ S100-4 □□□		0004 ^{⑥)}	0008 ^{⑥)}	0015 ^{⑤)}	0022 ^{⑥)}	0037 ^{⑥)}	0040 ^{⑥)}	0055	0075	0110	0150	0185	0220
Motor Rating ^{①)}	HP	0.5	1	2	3	5	5.5	7.5	10	15	20	25	30
	kW	0.4	0.75	1.5	2.2	3.7	4.0	5.5	7.5	11	15	18.5	22
Output Rating	Capacity [kVA] ^{②)}	1.0	1.9	3.0	4.2	6.1	6.5	9.1	12.2	17.5	22.9	28.2	33.5
	Rated Current ^{③)}	Heavy Duty(HD)	1.25	2.5	4.0	5.5	8.0	9.0	12	16	24	30	39
		Normal Duty(ND)	1.56	3.1	5.0	6.9	10.0	10.0	16	23	30	38	44
	Frequency [Hz]	0~400Hz (IM Sensorless : 0~120[Hz]) ^{④)}											
Input Rating	Voltage [V]	3-phase 380~480V ^{⑤)}											
	Voltage [V]	3-phase 380~480V (-15% ~ +10%)											
	Frequency [Hz]	50~60Hz(±5%)											
	Rated Current [A]	Heavy Duty(HD)	1.8	3.2	4.4	6.0	10.4	11.0	11.0	14.4	22.0	26.6	35.6
Weight [kg]		2.1	4.3	5.9	8.1	14.0	14.0	14.7	21.9	26.4	35.5	41.1	55.7
Weight [kg]		0.9	0.9	1.3	1.5	2.0	2.0	3.3	3.3	4.6	4.8	7.5	7.5

3-Phase 400V (0.4~22kW)

LSLV □□□□ S100-4 □□□		0300 ^{⑥)}	0370 ^{⑥)}	0450 ^{⑥)}	0550 ^{⑥)}	0750 ^{⑥)}
Motor Rating ^{①)}	HP	40	50	60	75	100
	kW	30	37	45	55	75
Output Rating	Capacity [kVA] ^{②)}	46	57	69	84	116
	Rated Current ^{③)}	Heavy Duty(HD)	61	75	91	110
		Normal Duty(ND)	75	91	107	142
	Frequency [Hz]	0~400Hz (IM Sensorless : 0~120[Hz]) ^{④)}				
Input Rating	Voltage [V]	3-phase 380~480V ^{⑤)}				
	Voltage [V]	3-phase 380~480V (-15% ~ +10%)				
	Frequency [Hz]	50~60Hz(±5%)				
	Rated Current [A]	Heavy Duty(HD)	56	69	85	103
Weight [kg]		69	105	100	134	160
Weight [kg]		26	35	35	43	43

^① Maximum applicable capacity is indicated in case of using a 4-pole standard motor (200 and 400V classes are based on 220 and 440V, respectively).

^② For the rated capacity, 200 and 400V class input capacities are based on 220 and 440V, respectively.

^③ The rated output current is limited depending on the setup of carrier frequency (CN-04).

^④ If the control mode (DR 09 Control Mode) is selected as No. 4 IM Sensorless, you can set up to 120Hz.

^⑤ Maximum output voltage is not performed above the power supply voltage. Output voltage can be set arbitrarily below the power supply voltage.

^⑥ To be released.

Control

Control Method	V/f, Slip compensation, Sensorless vector, PM sensorless
Frequency Setting Resolution	Digital command: 0.01Hz / Analog command: 0.06Hz (maximum frequency: 60Hz)
Frequency Accuracy	1% of the maximum output frequency
V/F Pattern	Linear, Squared, User V/F
Overload Capacity	HD: 150% 1 minute, ND: 120% 1 minute
Torque Boost	Manual/Automatic torque boost

Operation

Operation Mode		Keypad / Terminal / Communication option selectable	
Frequency Setting		Analog : -10~10[V], 0~10[V], 4~20[mA] / Digital : Keypad, Pulse train input	
Operation Features		PID, Up-down, 3-wire, DC braking, Frequency limit, Frequency jump, 2nd function, Slip compensation, Anti reverse rotation, Automatic restart, Commercial power change, Auto-tuning, Flying start, Energy buffering operation, Power braking, Flux braking, Leakage reduction operation	
Input	Multi-function Terminal (7 Points)	NPN (Sink) / PNP (Source) Selectable Function: Forward run, Reverse run, Reset, External trip, Emergency stop, Jog operation, Multi-step frequency-high, middle, low, Multi-step acceleration/ deceleration-high, middle, low, DC braking at stop, 2nd motor select, Frequency up/down, 3-wire operation, Change into normal operation during PID operation, Change into main body operation during option operation, Analog command frequency fixing, Acceleration/deceleration stop etc. Selectable	
	Analog Input	V1: -10~10V, selectable V2: 0~10V/I2 4~20mA	
	Pulse Train	0Hz~32kHz, Low level: 0~0.8V, High level: 3.5~12V	
Output	Open Collector Terminal	Fault output and inverter operation status output	Fault output and inverter operation status output
	Multi-function Relay	(N.O., N.C.) less than AC 250V 1A, less than DC 30V 1A	
	Analog Output	Selectable A0; V: 0~10V/I: 4~20mA; Frequency, Output current, Output voltage, DC stage voltage etc. selectable	
	Pulse Train	Maximum 32kHz, 10~12 [V]	

Protective Function

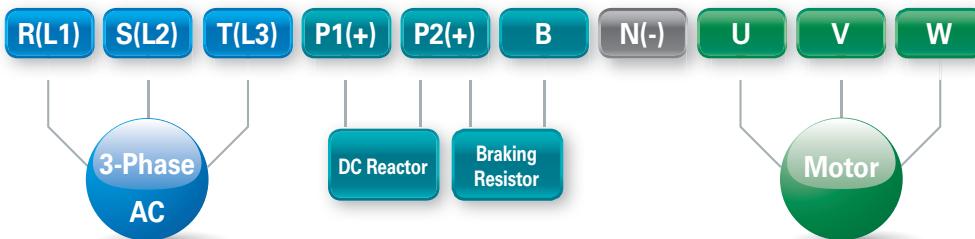
Trip	Overcurrent, Overvoltage, Undervoltage, External trip, Ground fault current detection, Inverter overheat, Motor overheat, Input/Output phase open, Overload protection, Light load protection, Communication error, Frequency command loss, Hardware fault, Cooling fan fault, Pre-PID motion failure, No motor trip, External brake trip, Option fault, Safety contact fault, Inverter temperature sensor fault, Parameter write error, IO board fault
Alarm	Stall prevention, Overload, Light load, Cooling fan fault, Frequency command loss, DB duty cycle, Rotor time constant tuning fault, Modify fan failure to cooling fan fault
Momentary Power Loss	HD below 16ms (ND below 8ms): Keep operation (To be within rated input voltage, rated output) HD above 16ms (ND above 8ms): Automatic restart operation enable

Environment

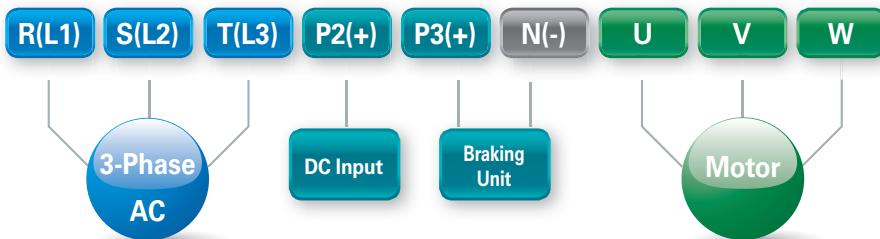
Cooling Method	Forced air cooling structure – Forced cooling: 0.4~75 kW 200/400V class (except some models)
Protection Degree	IP 20(Default), UL Open & Enclosed Type 1 (Option), IP66(NEMA4X)(Option)
Ambient Temperature	Ambient temperature under the condition of no ice or frost. HD: -10~50°C / ND: -10~40°C [However, recommended to use load below 80% when using at 50°C under light load]
Storage Temperature	Relative humidity below 90% RH (no dew formation)
Humidity	Below 1,000m, below 5.9m/sec2 (0.6G)
Altitude, Vibration	Below 1,000m, below 5.9m/sec2 (0.6G)
Location	No corrosive gas, flammable gas, oil mist and dust etc. indoors (pollution degree 2 environment)

Control Terminal Specifications

■ 0.4~22kW



■ 30~75kW



Applicable Inverter		Screw	① Torque (Kgf · cm)	② Wire			
				mm ²		AWG	
				R.S.T	U.V.W	R.S.T	U.V.W
200V 1-phase	0.4 kW	M3.5	2.1 ~ 6.1	1.5	1.5	16	16
	0.75 kW	M3.5	2.1 ~ 6.1	1.5	1.5	16	16
	1.5 kW	M3.5	2.1 ~ 6.1	1.5	1.5	16	16
	1.2 kW	M4	2.1 ~ 6.1	1.5	1.5	16	16
200V 3-phase	0.4 kW	M3.5	2.1 ~ 6.1	1.5	1.5	16	16
	0.75 kW	M3.5	2.1 ~ 6.1	1.5	1.5	16	16
	1.5 kW	M3.5	2.1 ~ 6.1	1.5	1.5	16	16
	2.2 kW	M3.5	2.1 ~ 6.1	2.5	2.5	14	14
	3.7 kW	M4	2.1 ~ 6.1	4	4	12	12
	4 kW	M4	2.1 ~ 6.1	4	4	12	12
	5.5 kW	M4	2.1 ~ 6.1	6	6	10	10
	7.5 kW	M4	2.1 ~ 6.1	6	6	10	10
	11 kW	M5	4.0 ~ 10.2	10	10	8	8
	15 kW	M5	4.0 ~ 10.2	16	16	6	6
400V 3-phase	0.4 kW	M3.5	2.1 ~ 6.1	1.5	1.5	16	16
	0.75 kW	M3.5	2.1 ~ 6.1	1.5	1.5	16	16
	1.5 kW	M3.5	2.1 ~ 6.1	1.5	1.5	16	16
	2.2 kW	M3.5	2.1 ~ 6.1	1.5	1.5	16	16
	3.7 kW	M4	2.1 ~ 6.1	1.5	1.5	16	16
	4 kW	M4	2.1 ~ 6.1	1.5	1.5	16	16
	5.5 kW	M4	2.1 ~ 6.1	2.5	2.5	14	14
	7.5 kW	M4	2.1 ~ 6.1	4	4	12	12
	11 kW	M5	4.0 ~ 10.2	4	4	12	12
	15 kW	M5	4.0 ~ 10.2	6	6	10	10
	18.5 kW	M5	4.0 ~ 10.2	10	10	8	8
	22 kW	M5	4.0 ~ 10.2	10	10	8	8

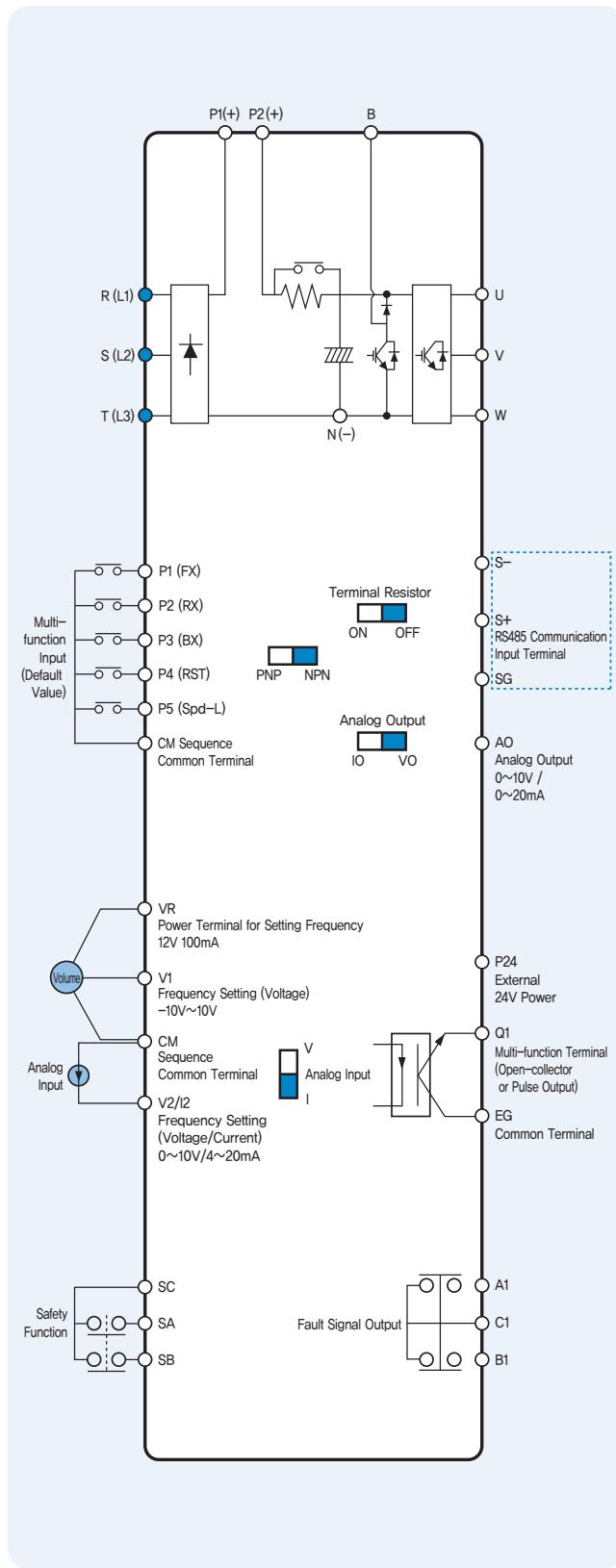
① Use terminal screws with the specified torque. If the screw tightening is loose, it may malfunction due to a short circuit.

② Use copper wires with 600V, 90°C specification.

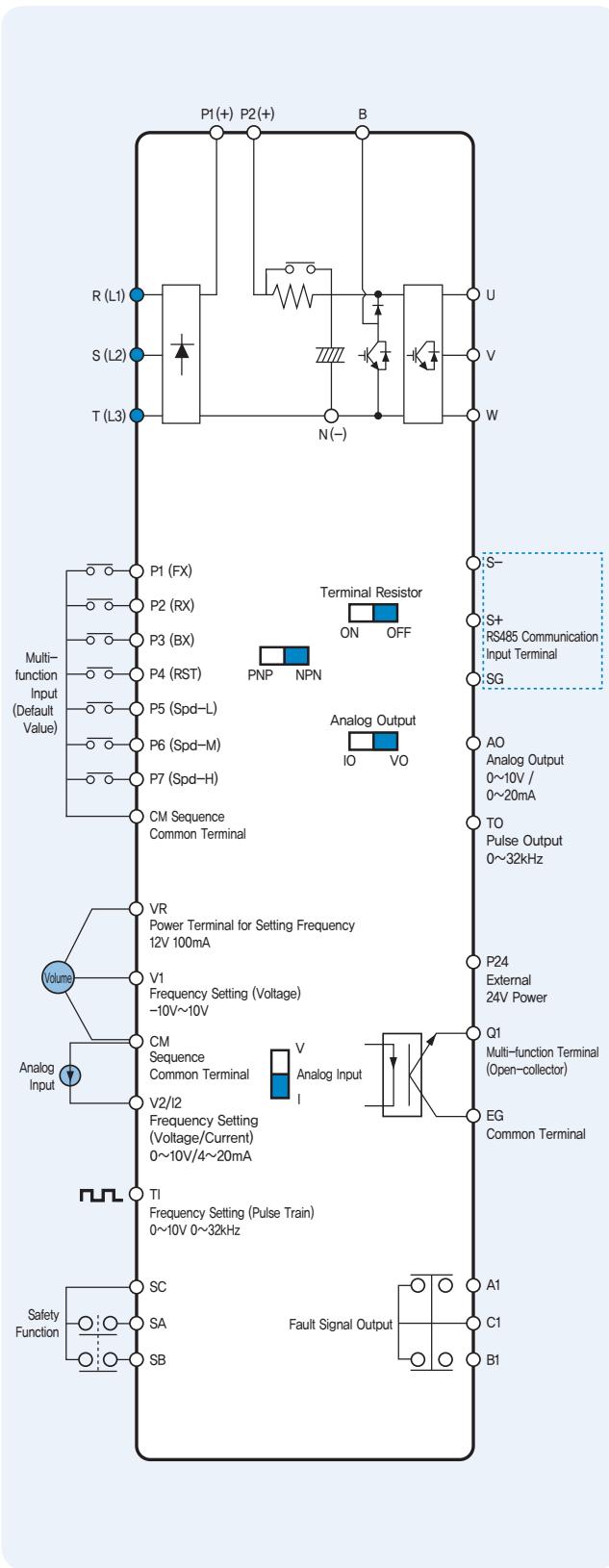
>> Wiring (0.4~22kW)

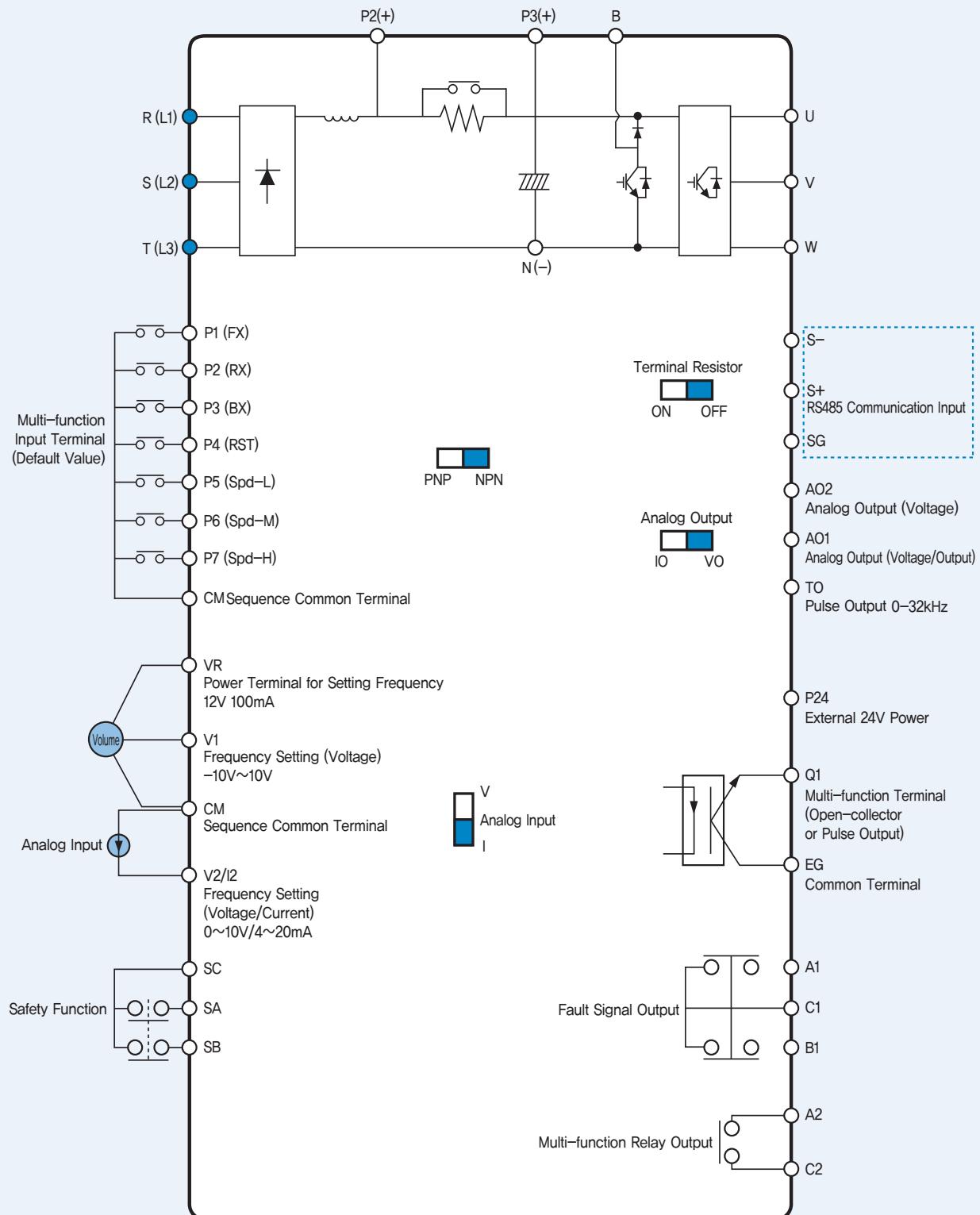
Standard Inverter with Powerful Control Performance

[Standard I/O]



[Extension I/O]





>> Terminal Configuration

Standard Inverter with Powerful Control Performance

0.4~22kW

Standard I/O



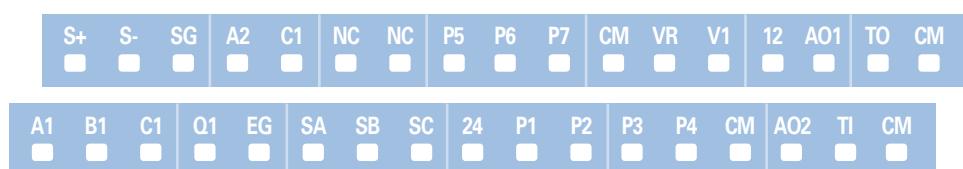
Extension I/O



※ Either the standard I/O or the extension I/O are installed on the surface of the S100.

30~75kW

Built-in I/O

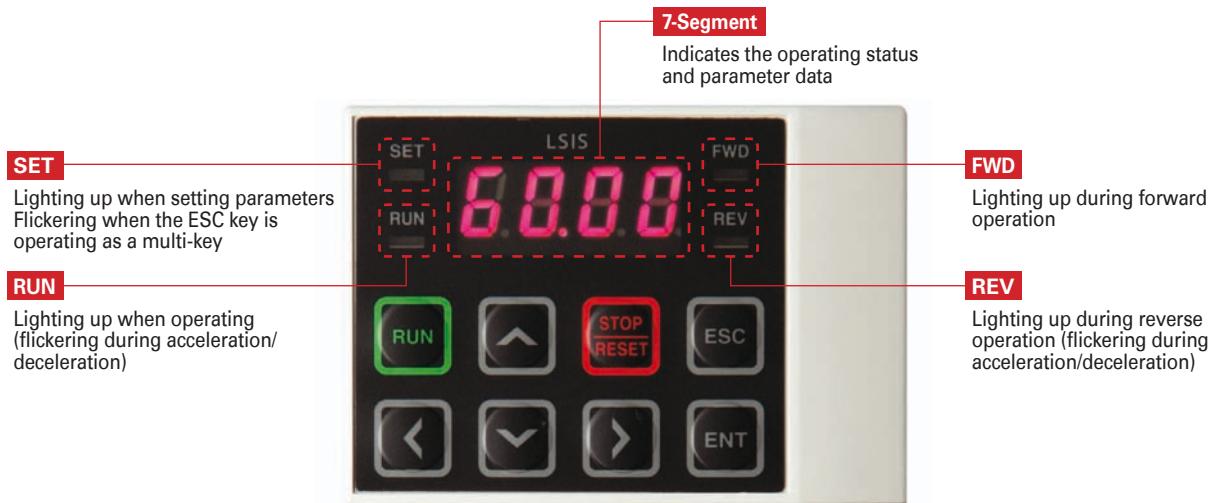


※ It has a built-in I/O board and the iS7 loader can be mounted on the face of the inverter.

Terminal Type	Recommended Wire Size [mm ²] (AWG)		Screw	Torque [Nm]	Electrical Specifications
	No Crimp-style Terminal	Crimp-style Terminal			
P1~P7, CM	0.75 (18)	0.5 (20)	M2	0.22 ~ 0.25	
VR					Output Voltage/Current: 12V, 100mA Volume Resistor: 1~5kΩ
V1					Maximum Input Voltage: -12V~+12V
I2					0~24mA Input (Internal Resistor: 249Ω)
AO					Maximum Output Voltage/Current: 12V, 24mA
Q1					DC 26V, 100mA below
EG					
24					Maximum Output Current: 150mA
TI					0~32kHz, 0~12V
TO					0~32kHz, 0~12V
SA,SB,SC					DC 24V, 25mA below
S+,S-,SG					
A1,B1,C1	1.0(17)	1.5(15)	M2.6	0.4	AC 250V, 1A below, DC 30V, 1A below

① The wire length of the safety input should not exceed 30m.

Standard I/O



Display	Term	Function Description	
	RUN Key	Run command	
	STOP/RESET Key	STOP: Stop command during operation, RESET: Reset command when a fault occurs.	
	UP Key	Used to scroll through codes or to increase a parameter value	
	DOWN Key	Used to scroll through codes or to decrease a parameter value	
	Left Key	Used to jump to other parameter groups or move the cursor to the left	
	Right Key	Used to jump to other parameter groups or move the cursor to the right	
	Enter Key	Used to set a parameter value or to save the changed parameter value	
	Escape Key	Used to cancel the Jog or Remote/Local change key or when editing	
FWD	Forward Run	Lighting up during forward run	Flickering when a fault occurs
REV	Reverse Run	Lighting up during reverse run	
RUN	RUN Key	Lighting up during operation (flickering during acceleration/deceleration)	
SET	Setting	Lighting up during parameter setting/Flickering when the ESC key is operating as a multi-key	
7-Segment	Current Value	Indicates operating conditions and parameter data	

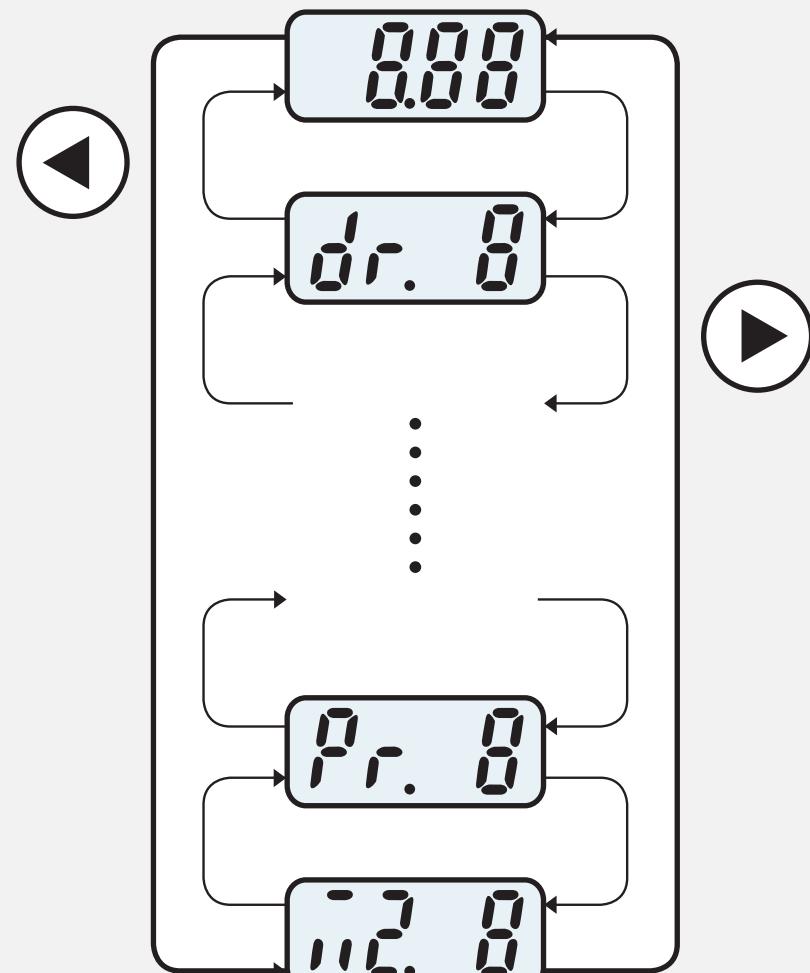
Moving to other Groups

Group Name	Display	Function Description
^① Operation Group	—	The most basic parameters required for operation such as a target frequency, acceleration/deceleration time.
Drive Group (Drive)		Basic operation parameters and parameters related to keypad operation, such as jog operation, motor capacity selection, torque boost.
Basic Function Group (Basic)		It can set basic functions such as motor parameters and multi-step frequencies.
Advanced Function Group (Advanced)		It can set acceleration/deceleration patterns and frequency limit functions etc.
Control Function Group (Control)		It can set functions related to sensorless and vector control.
Input Terminal Block Function Group (Input Terminal)		It can set functions related to the inverter input terminal block such as multi-function digital input and analog input.
Output Terminal Block Function Group (Output Terminal)		It sets functions related to the inverter output terminal block such as relay and analog output.
Communication Function Group (Communication)		In case of using built-in RS-485 or communication option, communication related function can be set.
Application Function Group (Application)		It sets functions for the PID control sequence operation etc.
Protective Function Group (Protection)		It can set protective functions for motors and inverter.
^② Motor Function (Motor 2)		It is displayed when one of multi-function input terminal is set as 2nd motor, and 2nd motor related function can be set.

^① It indicates only the target frequency when LCD keypad is installed.^② You can see it only when setting the function item of In.65~71 multi-function input terminal as no. 26 (2nd Motor).

 How to move between groups in the first code of each group

Group Name	Display	Group Movement
① Operation Group	—	
Drive Group (Drive)	dr	
Basic Function Group (Basic)	ba	
Advanced Function Group (Advanced)	ad	
Control Function Group (Control)	cn	
Input Terminal Block Function Group (Input Terminal)	in	
Output Terminal Block Function Group (Output Terminal)	ou	
Communication Function Group (Communication)	ci	
Application Function Group (Application)	ap	
Protective Function Group (Protection)	pr	
② Motor Function (Motor 2)	mc	



① It indicates only the target frequency when LCD keypad is installed. The first code of the operation group is a place to set a target frequency. It had been set as 0.00 when shipping from the factory, however, if a user changes the operating frequency, it indicates the changed operating frequency.

② You can see it only when setting the function item of In.65~71 multi-function input terminal as no. 26 (2nd Motor).

Protective Function Items

Protective Functions for Output Current and Input Voltage

Display	LCD Indication	Type	Description
	Over Load	Latch	Displayed when the motor overload fault is selected and the load exceeds the set value. It works only if Pr.20 is set as a value other than 0.
	Under Load	Latch	Displayed when the normal duty protection function is selected and the motor load is below the set normal duty level. It works only if Pr.27 is set as a value other than 0.
	Over Current1	Latch	Displayed when the inverter output current becomes above 200% of rated current.
	Over Voltage	Latch	Displayed when the voltage of DC circuit increases above the specified value.
	Low Voltage	Level	Displayed when the voltage of DC circuit decreases below the specified value.
	Low Voltage2	Latch	Displayed when the voltage of DC circuit decreases below the specified value when operating the inverter.
	Ground Trip	Latch	Displayed when current is flowing above the specified value because of a ground fault at the inverter output stage. The ground fault detection current is different for each inverter capacity.
	E-Thermal	Latch	To prevent overheating when operating a motor with overload, it occurs according to the inverse time thermal property. It works only if Pr.40 is set as a value other than 0.
	Out Phase Open	Latch	Displayed when more than 1 phase of the 3-phase inverter output becomes open phase. It works only if bit 1 of Pr.05 is set as 1.
	In Phase Open	Latch	Displayed when more than 1 phase of the 3-phase inverter input becomes open phase. It works only if bit 2 of Pr.05 is set as 1.
	Inverter OLT	Latch	It is the inverse time thermal property protection function for protecting the inverter from overheating. The criterion is 150%, 1 minute, 200%, 4 seconds based on the inverter rated current. The 200%, 4 seconds is different for each inverter capacity.
	No Motor Trip	Latch	Displayed when a motor is not connected when operating the inverter. It works only if Pr.31 is set as 1.

Protective Functions by the Keypad and Option

Display	LCD Indication	Type	Description
	Lost Command	Level	When entering the frequency or operation command by using the terminal block or other communication method, other than the keypad, it is a case that there is a problem in the command. It works if Pr.12 is set as a value other than 0.
			Displayed when a basic I/O or external communication card is not connected with the inverter or the contact condition is poor.
	IO Board Trip	Latch	- 'S100' is displayed when I/O is disconnected from the main CPU. - If the S100 code is displayed for more than 5 seconds ErrC occurs.
			
	ParaWrite Trip	Latch	Displayed when there is no communication while writing parameters due to a loader cable fault or bad connection etc.
	Option Trip-1	Latch	Displayed when there is a communication error between the inverter main body and the option (communication).

Protective Functions by Internal Circuit Faults and External Signals

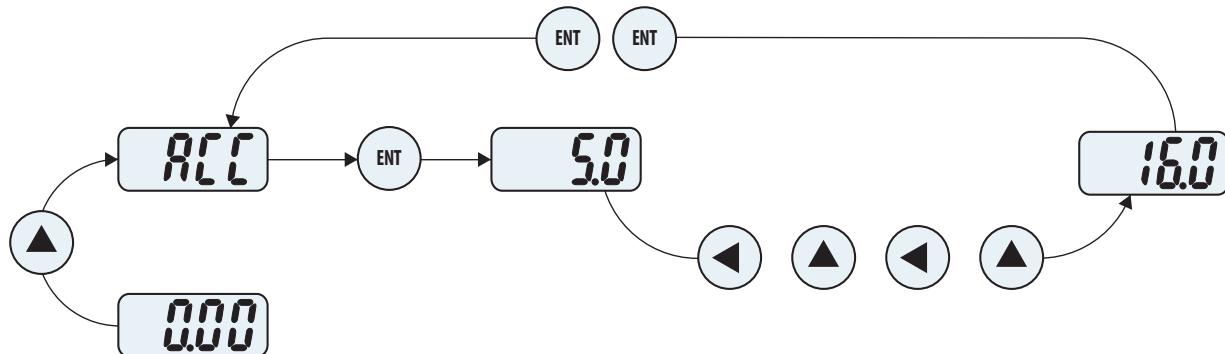
Display	LCD Indication	Type	Description
	Over Heat	Latch	A fault occurs if the temperature of the inverter heat sink rises above the specified value.
	Over Current2	Latch	A fault occurs if the DC unit in the inverter detects a short-circuit current value.
	External Trip	Latch	It is an external fault signal by selecting the function of multi-function terminal. Select no.4 External Trip among function In.65 to 71.
	BX	Level	It blocks the inverter output by selecting the function of multi-function terminal. Select no.5 BX among function In.65 to 71.
	H/W-Diag	Fatal	<p>It is a case that there is a fault on the memory (EEPROM), analog-digital converter output (ADC Off Set), and CPU malfunction (Watch Dog-1, Watch Dog-2) etc. in the inverter.</p> <ul style="list-style-type: none"> - EEP Err: A case that there is a problem when reading/writing parameters due to KPD EEP Rom damage. - ADC Off Set: A case that there is a problem in current sensing part.
	ntc	Latch	A fault occurs if an error is detected in the temperature detecting sensor of the power semiconductor (IGBT).
	Fan Trip	Latch	A fault occurs if a cooling fan error is detected. It works if Pr.79 is selected as 0.
	Pre-PID Fail	Latch	While operating Pre-PID by setting a function between AP34~36, if the control value(PID feedback)is continuously entered below the set value, it decides as a fault condition of the load system, and a fault is occurred.
	Ext-Brake	Latch	It works when operating external brake signals by selecting a function of multi-function terminals. If the inverter output current is kept as a condition lower than Ad-41 when starting the inverter, a fault is occurred. Set one of OU-31, 32 as no. 35 BR Control.
	Safety A(B) Err	Level	It occurs if one of the two safety input signals turns off.

Fault Recovery

Display	Type	Cause	Solution
	Over Load	Load is larger than the motor rating. The value set in the overload fault level (Pr.21) is small.	Increase the capacity of motor and inverter. Increase the set value of the overload fault level
	Under Load	There is a problem in the connection between the motor and the load. The normal duty level (Pr.29, 30) is set as larger than minimum load of the system.	Decrease the capacity of motor and inverter. Lower the set value of the light load level.
	Over Current1	The acceleration/deceleration time is extremely shorter than the inertia of load (GD2). The inverter load is larger than the rating. The inverter output is applied when the motor is idling. Motor mechanical brake motion is fast.	Set the acceleration/deceleration time longer. Replace with an inverter with large capacity. Operate after the motor stops or use the speed search function (On.60). Check the mechanical brake.

Display	Type	Cause	Solution
	Over Voltage	The deceleration time is too short compared to the inertia of load (GD2). The regenerative load is at the inverter output side. AC input voltage is high.	Set the deceleration time longer. Use a braking resistor. Check whether the AC input voltage is above the specified value.
	Low Voltage	AC input voltage is low. Larger load than the power capacity is connected to the power system. (Welding machine or motor line-start etc.) The electromagnetic contactor at the power supply side is defective.	Check whether the AC input voltage is below the specified value. Increase the power capacity. Replace the electromagnetic contactor.
	Low Voltage2	AC input voltage is lowered during operation. There is an input open phase under the low AC input voltage condition. The electromagnetic contactor at the power supply side is defective.	Check whether the AC input voltage is below the specified value. Check the input wiring. Replace the electromagnetic contactor.
	Ground Trip	The inverter output wire has a ground fault. The motor insulation is disabled.	Investigate the inverter output terminal wiring. Replace the motor.
	E-Thermal	The motor is overheated. The inverter load is larger than the rating. Electronic thermal level is set low. The inverter has been operating at low speed for a long time.	Reduce the load or the operation frequency. Increase the inverter capacity. Set the appropriate electronic thermal level. Replace with a motor that can separately supply power to the motor cooling fan.
	Out Phase Open	Bad connection on the electromagnetic contactor at the output side. Output wiring & defect occurred.	Check the electromagnetic contactor at the inverter output side. Check the output wiring.
	In Phase Open	There is a contact failure of the electromagnetic contactor at the input side. Input wiring defect occurred. Consider replacing the inverter DC unit condenser.	Check the electromagnetic contactor at the inverter input side. Check the input wiring. Replace the inverter DC unit condenser. Contact the nearest service center.
	Inverter OL	Load is larger than the inverter rating. The torque boost amount is too large.	Increase the capacity of motor and inverter. Reduce the torque boost amount.
	Over Heat	There is an error in the cooling system. The inverter has been used for a longer time than the replacement period of cooling fan. Ambient temperature is high.	Check whether there is a foreign substance in the vent such as the air inlet and outlet. Replace the inverter cooling fan. Keep the temperature around the inverter below 50°C.
	Over Current2	The inverter output wire is short-circuited. There is a problem in the inverter power semiconductor (IGBT).	Investigate the inverter output terminal wiring. The inverter cannot be operated. Contact the nearest service center.
	NTC Open	Ambient temperature is too low. There is a problem in the temperature sensor inside the inverter.	Operate the inverter at a place where ambient temperature is above -10°C. Contact the nearest service center.
	FAN Lock	Foreign substances have been flowed into the inverter vent where the fan is located. Consider replacing the inverter cooling fan.	Check the air inlet and outlet. Replace the inverter cooling fan.
	IP54 FAN Trip	The fan connector is not connected. Consider replacing the inverter cooling fan.	Connect the fan connector. Replace the inverter cooling fan.

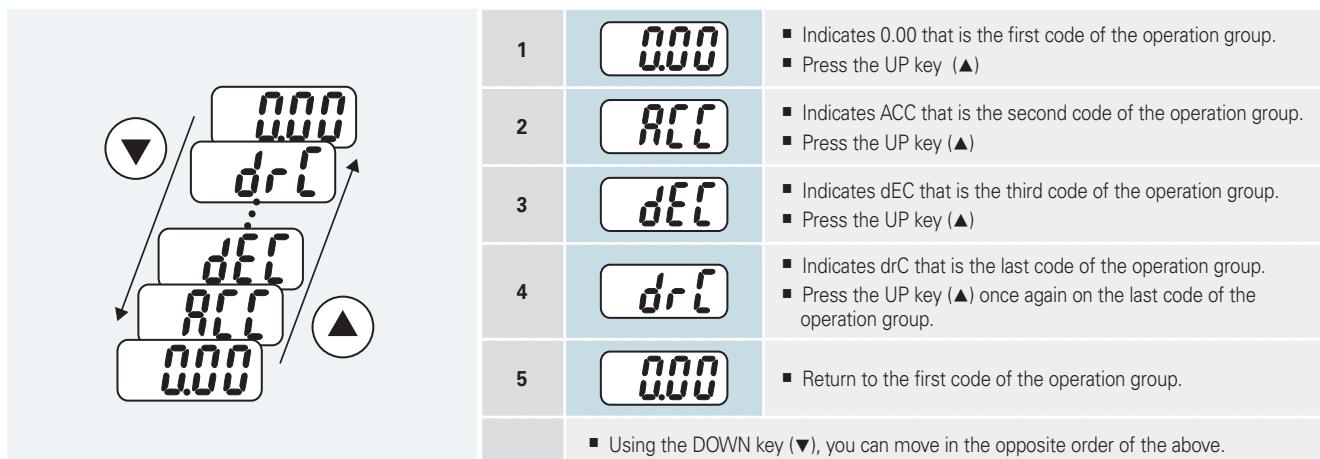
 An example of changing the acceleration time from 5.0 second to 16.0 second



1		<ul style="list-style-type: none"> ▪ Indicate the first code information of the operation group. ▪ Press the UP key (▲)
2		<ul style="list-style-type: none"> ▪ Indicate the acceleration time ACC that is the second code of the operation group. ▪ Press the ENTER key (ENT).
3		<ul style="list-style-type: none"> ▪ 0 in 5.0 flickers at 1-second interval. ▪ Press the Left Shift key (◀)
4		<ul style="list-style-type: none"> ▪ 5 in 5.0 flickers, which indicates that the value of 5 can be changed. ▪ Press the UP key (▲)
5		<ul style="list-style-type: none"> ▪ The value is changed into 6.0. ▪ Press the Left Shift key (◀)
6		<ul style="list-style-type: none"> ▪ As 0 in 06.0 flickers, it indicates 06.0. ▪ Press the UP key (▲)
7		<ul style="list-style-type: none"> ▪ 16.0 is indicated. Press the ENTER key (ENT). ▪ 16.0 flickers. Press the ENTER key (ENT).
8		<ul style="list-style-type: none"> ▪ ACC is indicated. The acceleration time is changed into 16.0 second.

¹⁰) Flickering when modifying a parameter is for asking whether you are going to enter the value. When pressing the enter key (ENT) at this step, the input is completed. If you do not want to enter the modified value, you can press the left, right, up and down keys (\blacktriangleleft) (\triangleright) (\blacktriangleup) (\blacktriangledown) except the enter key (ENT) in the ON condition to cancel the input.

How to Move between Codes in the operation group



>> Braking Resistors and Peripheral Devices

Standard Inverter with Powerful Control Performance

Braking Resistors

150% Braking Torque, 5% ED						
Inverter [kW]	200V 1-phase		200V 3-phase		400V 3-phase	
	Resistor [ohm]	Watt [W]	Resistor [ohm]	Watt [W]	Resistor [ohm]	Watt [W]
0.4kW	300	100	300	100	1,200	100
0.75kW	150	150	150	150	600	150
1.5kW	60	300	60	300	300	300
2.2kW	50	400	50	400	200	400
3.7kW	—	—	33	600	130	600
4.0kW	—	—	33	600	130	600
5.5kW	—	—	20	800	85	1,000
7.5kW	—	—	15	1,200	60	1,200
11kW	—	—	10	2,400	40	2,000
15kW	—	—	8	2,400	30	2,400
18.5kW	—	—	—	—	20	3,600
22kW	—	—	—	—	20	3,600
30kW	—	—	—	—	12	5,000
37kW	—	—	—	—	12	5,000
45kW	—	—	—	—	6	10,000
55kW	—	—	—	—	6	10,000
75kW	—	—	—	—	6	10,000

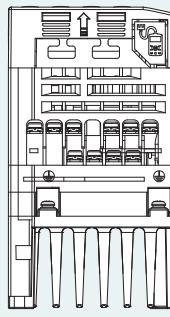
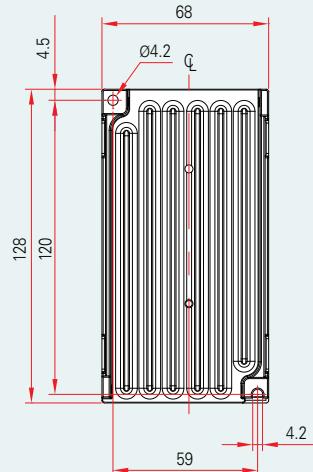
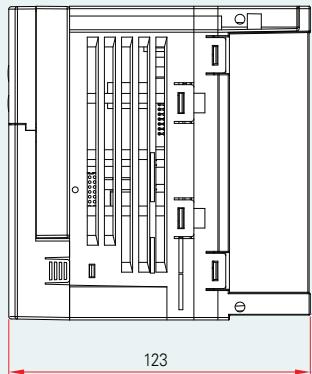
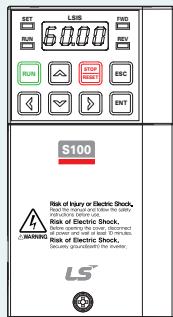
* As ED(%) increases, watt(W) value increases proportionally.

Breakers

Inverter Model	MCCB	ELCB(LS)	MC
0.4 kW-1	TD125U	EBS 33c	MC-9
0.75 kW-1	TD125U	EBS 33c	MC-9
1.5 kW-1	TD125U	EBS 33c	MC-12
2.2 kW-1	TD125U	EBS 33c	MC-18
0.4 kW-2	TD125U	EBS 33c	MC-9
0.75 kW-2	TD125U	EBS 33c	MC-9
1.5 kW-1	TD125U	EBS 33c	MC-12
2.2 kW-2	TD125U	EBS 33c	MC-18
3.7 kW-2	TD125U	EBS 33c	MC-32
4 kW-2	TD125U	EBS 33c	MC-32
5.5 kW-2	TD125U	EBS 53c	MC-40
7.5 kW-2	TD125U	EBS 63c	MC-50
11 kW-2	TD125U	EBS 103c	MC-65
15 kW-2	TD125U	EBS 203c	MC-100
18.5 kW-2	TS250U	EBS 203c	MC-100
22 kW-2	TS250U	EBS 203c	MC-125

Inverter Model	MCCB	ELCB(LS)	MC
0.4 kW-4	TD125U	EBS 33c	MC-9
0.75 kW-4	TD125U	EBS 33c	MC-9
1.5 kW-4	TD125U	EBS 33c	MC-12
2.2 kW-4	TD125U	EBS 33c	MC-18
3.7 kW-4	TD125U	EBS 33c	MC-18
4 kW-4	TD125U	EBS 33c	MC-18
5.5 kW-4	TD125U	EBS 33c	MC-32
7.5 kW-4	TD125U	EBS 33c	MC-32
11 kW-4	TD125U	EBS 53c	MC-40
15 kW-4	TD125U	EBS 63c	MC-50
18.5 kW-4	TD125U	EBS 103c	MC-65
22 kW-4	TD125U	EBS 103c	MC-65

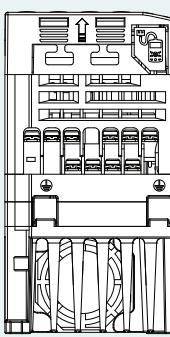
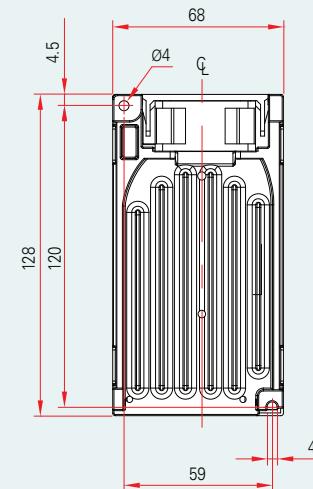
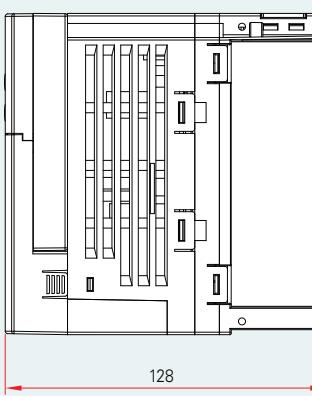
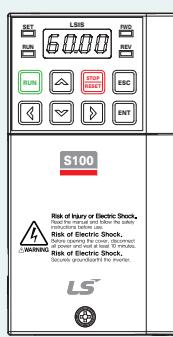
 0004S100-2 / 0004S100-4



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0004S100-2	68 (2.68)	59 (2.32)	128 (5.04)	120 (4.72)	4.5 (0.18)	123 (4.84)	4.5 (0.16)	4.2 (0.16)	4.2 (0.16)	0.86
LSLV0004S100-4	68 (2.68)	59 (2.32)	128 (5.04)	120 (4.72)	4.5 (0.18)	123 (4.84)	4.5 (0.16)	4.2 (0.16)	4.2 (0.16)	0.86

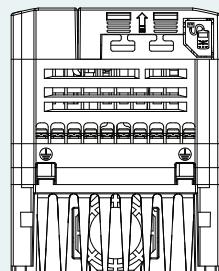
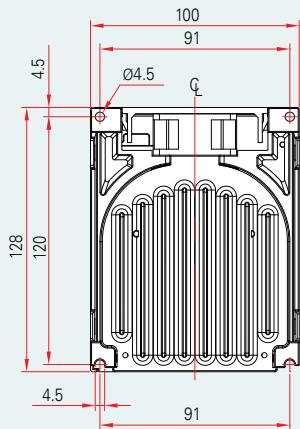
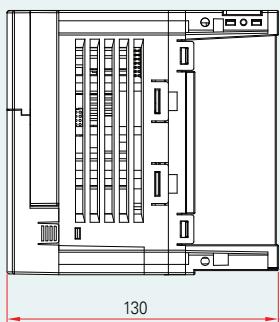
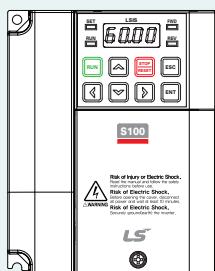
 0004S100-1 / 0008S100-2 / 0008S100-4



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0004S100-1	68 (2.68)	59 (2.32)	128 (5.04)	120 (4.72)	4.5 (0.18)	128 (5.04)	4.5 (0.16)	4 (0.16)	4 (0.16)	0.88
LSLV0008S100-2	68 (2.68)	59 (2.32)	128 (5.04)	120 (4.72)	4.5 (0.18)	128 (5.04)	4.5 (0.16)	4 (0.16)	4 (0.16)	0.86
LSLV0008S100-4	68 (2.68)	59 (2.32)	128 (5.04)	120 (4.72)	4.5 (0.18)	128 (5.04)	4.5 (0.16)	4 (0.16)	4 (0.16)	0.88

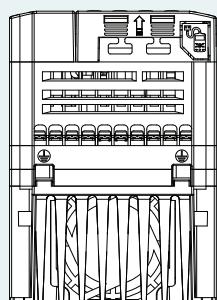
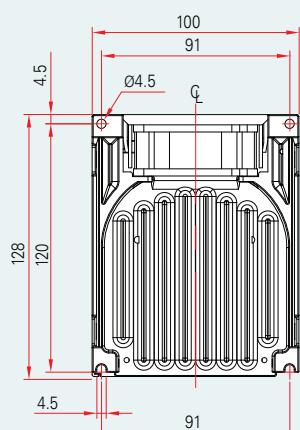
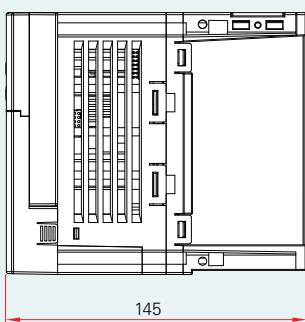
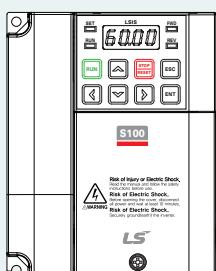
0008S100-1 / 0015S100-2 / 0015S100-4



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0008S100-1	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	130 (5.12)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	1.3
LSLV0015S100-2	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	130 (5.12)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	1.5
LSLV0015S100-4	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	130 (5.12)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	1.5

0015S100-1 / 0022S100-2 / 0022S100-4



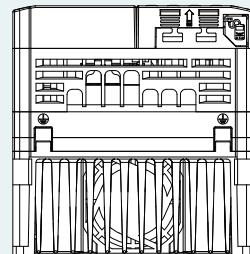
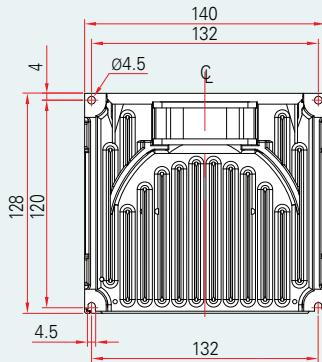
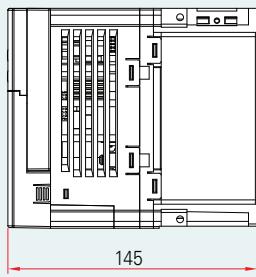
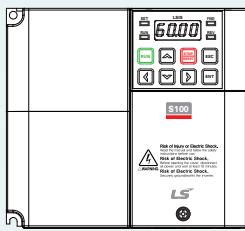
Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV015S100-1	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	145 (5.71)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	1.5
LSLV022S100-2	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	145 (5.71)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	1.5
LSLV022S100-4	100 (3.94)	91 (3.58)	128 (5.04)	120 (4.72)	4.5 (0.18)	145 (5.71)	4.5 (0.18)	4.5 (0.18)	4.5 (0.18)	1.5

High-Performance Standard Inverter S100

>> Dimensions

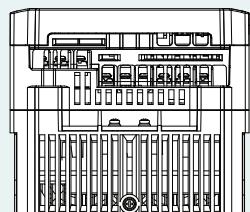
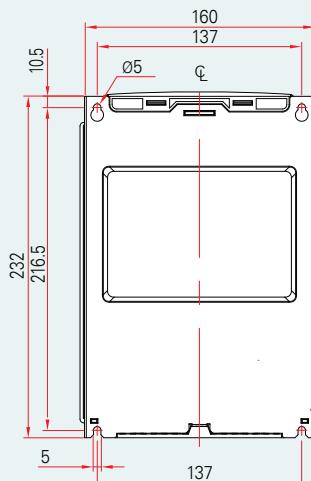
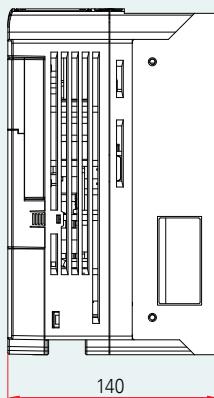
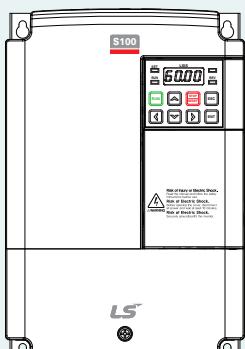
0022S100-1 / 0037S100-2 / 0040S200-2 / 0037S100-2 / 0040S100-4



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0022S100-1	140 (5.51)	132 (5.20)	128 (5.04)	120 (4.72)	4 (0.16)	145 (5.71)	4 (0.18)	4.5 (0.17)	4.5 (0.18)	2.2
LSLV0037S100-2 LSLV0040S100-2	140 (5.51)	132 (5.20)	128 (5.04)	120 (4.72)	4 (0.16)	145 (5.71)	4 (0.18)	4.5 (0.17)	4.5 (0.18)	2.3
LSLV0037S100-4 LSLV0040S100-4	140 (5.51)	132 (5.20)	128 (5.04)	120 (4.72)	4 (0.16)	145 (5.71)	4 (0.18)	4.5 (0.17)	4.5 (0.18)	2.7

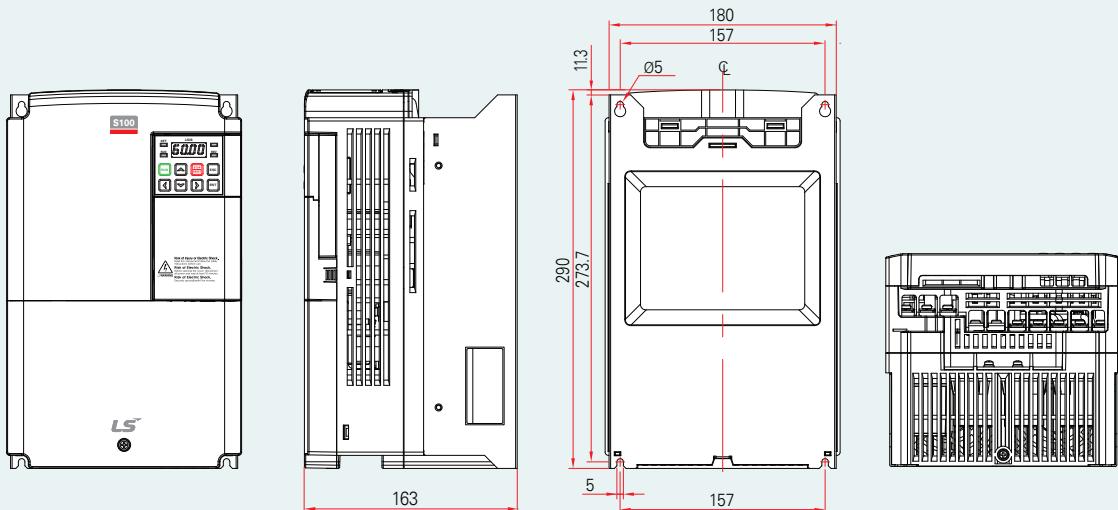
0055S100-2 / 0075S100-2 / 0055S100-4 / 0075S100-4



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0055S100-2	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)	140 (5.51)	5 (0.20)	5 (0.20)		3.3
LSLV0075S100-2	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)	140 (5.51)	5 (0.20)	5 (0.20)		3.3
LSLV0055S100-4	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)	140 (5.51)	5 (0.20)	5 (0.20)		3.3 / 3.4
LSLV0075S100-4	160 (6.30)	137 (5.39)	232 (9.13)	216.5 (8.52)	10.5 (0.41)	140 (5.51)	5 (0.20)	5 (0.20)		3.3 / 3.4

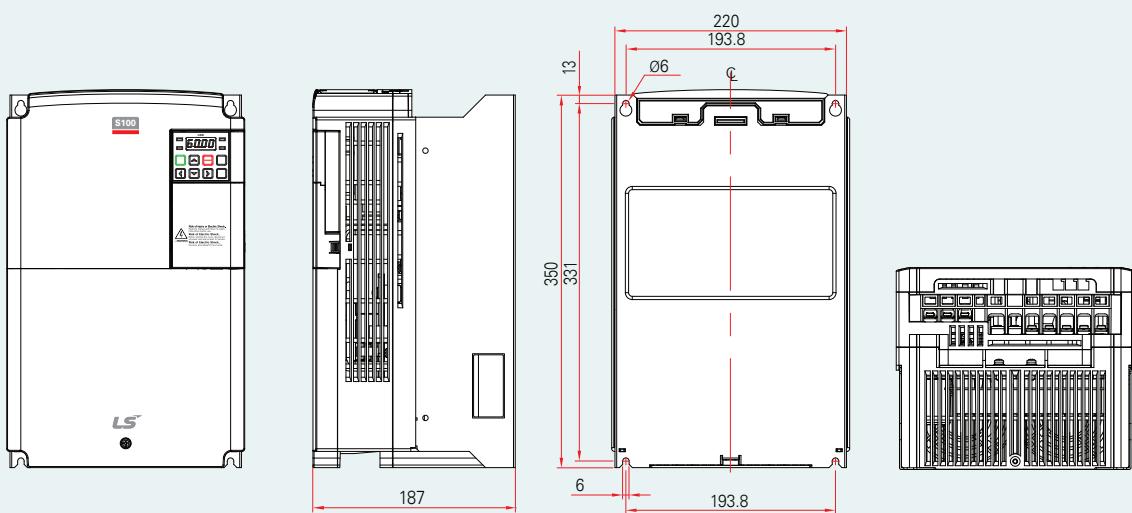
0110S100-2 / 0110S100-4 / 0150S100-4



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0110S100-2	180 (7.09)	157 (6.18)	290 (11.4)	273.7 (10.8)	11.3 (0.44)	163 (6.42)	5 (0.20)	5 (0.20)		4.6
LSLV0110S100-4	180 (7.09)	157 (6.18)	290 (11.4)	273.7 (10.8)	11.3 (0.44)	163 (6.42)	5 (0.20)	5 (0.20)		4.6 / 4.8
LSLV0150S100-4	180 (7.09)	157 (6.18)	290 (11.4)	273.7 (10.8)	11.3 (0.44)	163 (6.42)	5 (0.20)	5 (0.20)		4.6 / 4.8

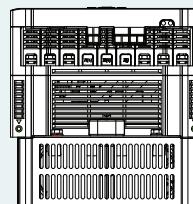
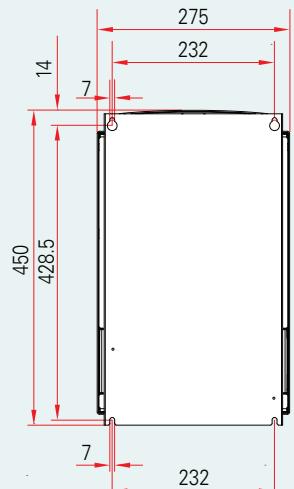
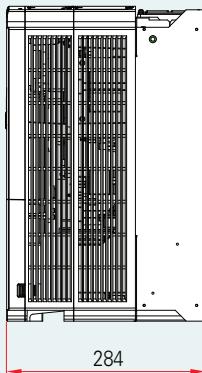
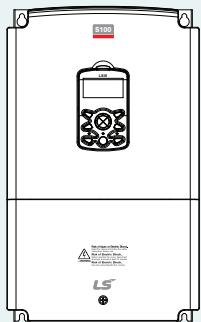
0150S100-2 / 0185S100-4 / 0220S100-4



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0150S100-2	220 (8.66)	193.8 (7.63)	350 (13.8)	331 (13.0)	13 (0.51)	187 (7.36)	6 (0.24)	6 (0.24)		4.6
LSLV0185S100-4	220 (8.66)	193.8 (7.63)	350 (13.8)	331 (13.0)	13 (0.51)	187 (7.36)	6 (0.24)	6 (0.24)		7.5
LSLV0220S100-4	220 (8.66)	193.8 (7.63)	350 (13.8)	331 (13.0)	13 (0.51)	187 (7.36)	6 (0.24)	6 (0.24)		7.5

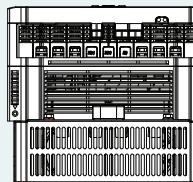
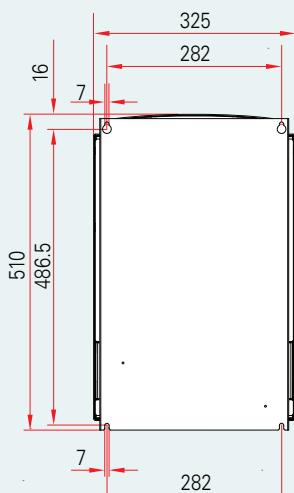
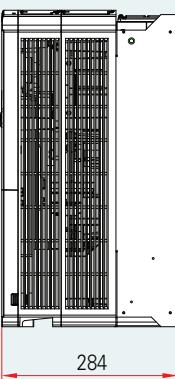
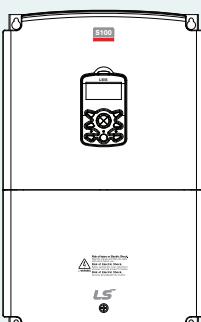
 0300S100-4



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0300S100-4	275 (10.8)	232	450 (17.7)	428.5	14	284 (11.2)	7 (0.28)	7 (0.28)		26

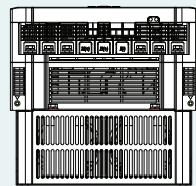
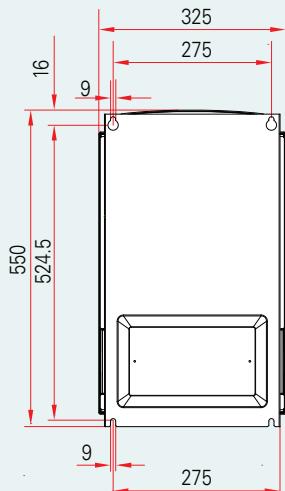
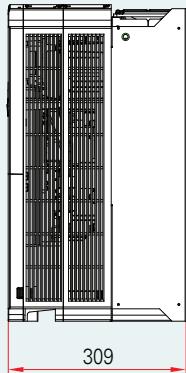
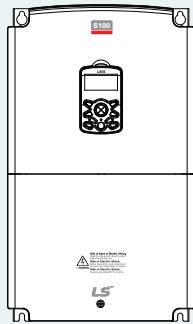
 0370S100-4 / 0450S100-4



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0370S100-4	325 (12.8)	282	510 (20.1)	486.5	16	284 (11.2)	7 (0.28)	7 (0.28)		35
LSLV0450S100-4	325 (12.8)	282	510 (20.1)	486.5	16	284 (11.2)	7 (0.28)	7 (0.28)		35

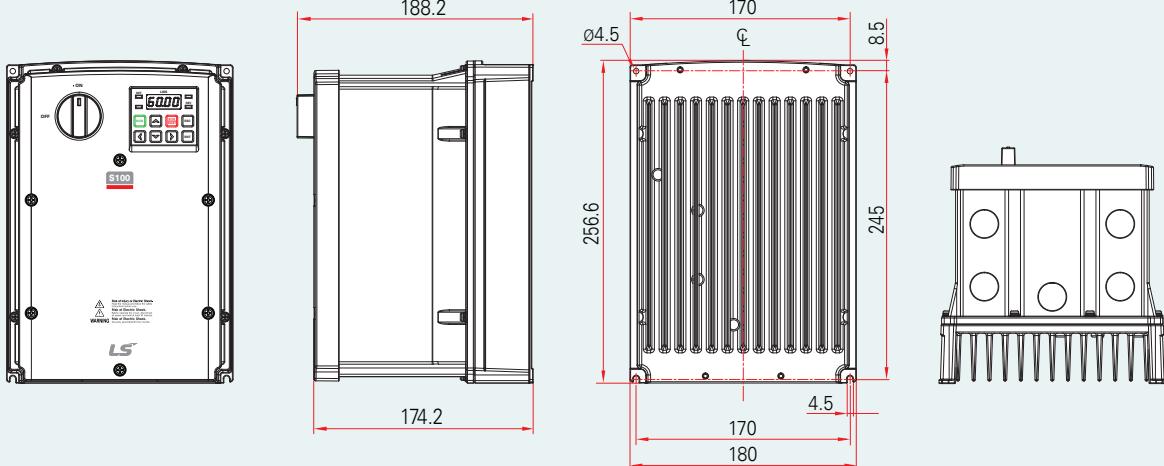
0550S100-4 / 0750S100-4



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0550S100-4	325 (12.8)	275	550 (21.7)	524.5	16	309 (12.2)	9	9		43
LSLV0750S100-4	325 (12.8)	275	550 (21.7)	524.5	16	309 (12.2)	9	9		43

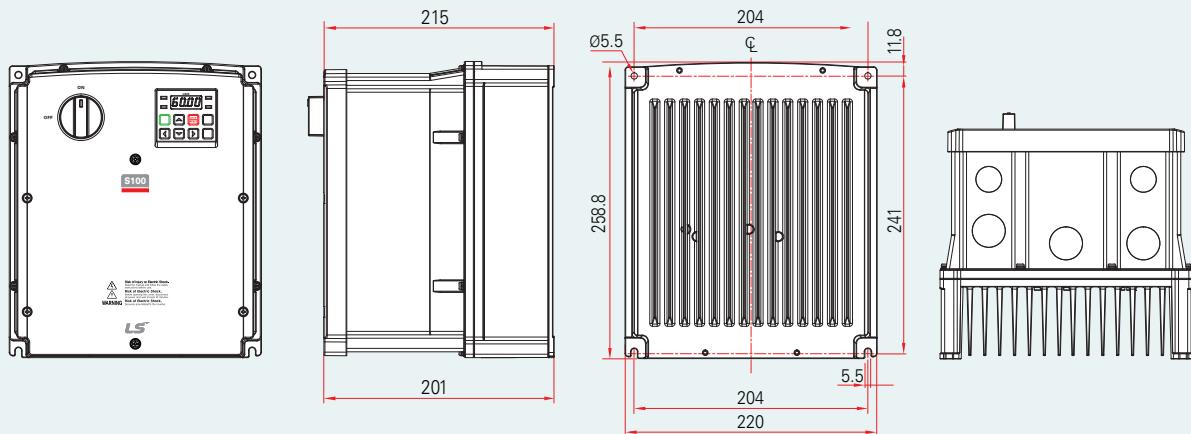
 0004S100-2X / 0008S100-2X / 0004S100-4X / 0008S100-4X (NEMA4X)



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	D2	A	B	Φ	weight
LSLV0004S100-2X	180	170	256.6	245	8.2	188.2	174.2	4.5	4.5		
LSLV0008S100-2X	180	170	256.6	245	8.2	188.2	174.2	4.5	4.5		
LSLV0004S100-4X	180	170	256.6	245	8.2	188.2	174.2	4.5	4.5		
LSLV0008S100-4X	180	170	256.6	245	8.2	188.2	174.2	4.5	4.5		

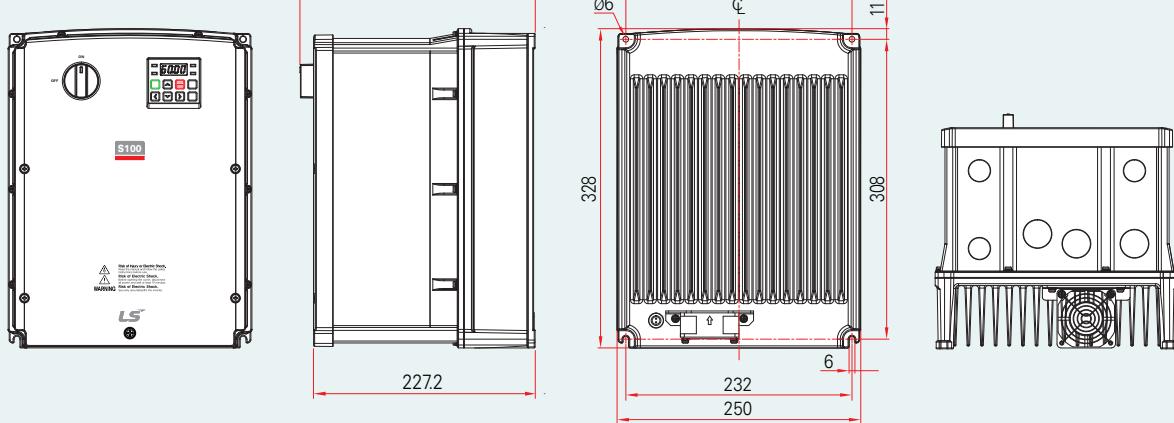
**0015S100-2X / 0022S100-2X / 0037S100-2X / 0040S100-2X
0015S100-4X / 0022S100-4X / 0037S100-4X / 0040S100-4X (NEMA4X)**



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	A	B	Φ	weight
LSLV0015S100-2X	220	204	258.8	241	11.8	215	201	5.5		
LSLV0022S100-2X	220	204	258.8	241	11.8	215	201	5.5		
LSLV0037S100-2X	220	204	258.8	241	11.8	215	201	5.5		
LSLV0040S100-2X	220	204	258.8	241	11.8	215	201	5.5		
LSLV0015S100-4X	220	204	258.8	241	11.8	215	201	5.5		
LSLV0022S100-4X	220	204	258.8	241	11.8	215	201	5.5		
LSLV0037S100-4X	220	204	258.8	241	11.8	215	201	5.5		
LSLV0040S100-4X	220	204	258.8	241	11.8	215	201	5.5		

0055S100-2X / 0075S100-2X / 0055S100-4X / 0075S100-4X (NEMA4X)



Unit : mm(inches), kg

Inverter capacity	W1	W2	H1	H2	H3	D1	D2	A	B	Φ	weight
LSLV0055S100-2X	250	232	328	308	11	241.2	227.2	6	6		
LSLV0075S100-2X	250	232	328	308	11	241.2	227.2	6	6		
LSLV0055S100-4X	250	232	328	308	11	241.2	227.2	6	6		
LSLV0075S100-4X	250	232	328	308	11	241.2	227.2	6	6		

>> MEMO

Standard Inverter with Powerful
Control Performance

Green Innovators of Innovation



Safety Instructions

- For your safety, please read user's manual thoroughly before operating.
- Contact the nearest authorized service facility for examination, repair, or adjustment.
- Please contact a qualified service technician when you need maintenance.
Do not disassemble or repair by yourself!
- Any maintenance and inspection shall be performed by the personnel having expertise concerned.

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