The right choice for the ultimate yield!

LS ELECTRIC strives to maximize your profits in gratitude for choosing us as your partner.

iS7 Flange Option

SV-iS7 series

User's Manual



Safety Instructions

- Use this board after read Safety Instruction of this manual carefully before using and follow the instructions exactly.
- Please hand this user manual to end user and trouble shooting manager
- After read this manual, keep it at handy for future reference.

- 사용 전에 '안전상의 주의사항'을 반드시 읽고 정확하게 사용하여 주십시오.
- 본 설명서는 제품을 사용하는 사람이 항상 볼 수 있는 곳에 잘 보관하십시오.

LS ELECTRIC

Table of Contents

1. Preface and Safety 5

2. Product Overview 5

3. Before using the product 5

4. Contents 5

5. Installation Procedure 6

6. Flange Option Opening Size 9

7. Produtt Size (Drive with Flange Option) 12

8. Revision History 22

Thank you for purchasing LS Variable Frequency Drives!

SAFETY INSTRUCTIONS

To prevent injury and property damage, follow these instructions. Incorrect operation due to ignoring instructions can cause harm or damage. The following symbols indicate the seriousness and risks associated with a particular item..

⚠ DANGER	This symbol indicates the instant death or serious injury if you don't follow instructions
⚠ WARNING	This symbol indicates the possibility of Death or serious injury
⚠ CAUTION	This symbol indicates the possibility of Injury or damage to property

- The definition of each symbol in this manual and on your equipment is as follows.

⚠ This is the safety alert symbol.
Read and follow instructions carefully to avoid dangerous situation.

⚠ This symbol alerts the user to the presence of a "dangerous voltage" Inside the product that might cause harm or electric shock.

- After reading this manual, keep it in a location the easily found.
- This manual should be given to the person who actually installs the products and responsible for their maintenance.

⚠ WARNING

- **Do not remove the cover while power is applied or the unit is in operation.**

  Otherwise, electric shock can occur.

- **Do not run the inverter with the front cover removed.**

  Otherwise, you may get an electric shock due to high voltage terminals or charged capacitor exposure.

- **Do not remove the cover except for periodic inspections or wiring, even if the input power is not applied.**

  Otherwise, you may access the charged circuits and get an electric shock.

- **Wiring and periodic inspections should be performed at least 10 minutes after disconnecting the input power and after checking the DC link voltage is discharged with a meter (below DC 30V).**

  Otherwise, you may get an electric shock.

- **Do not operate the products or switches with wet hands.**

  Otherwise, you may get an electric shock.

- **Do not use wire or cable when if the insulation is damaged.**

  Otherwise, you may get an electric shock and cause damage to the product..

- **Do not subject the cables to scratches, excessive stress, heavy loads or pinching.**

  Otherwise, you may get an electric shock.

⚠ CAUTION

- **Install the inverter on a non-flammable surface. Do not place flammable material nearby.**

  Otherwise, fire could occur.

- **Disconnect the input power if the inverter gets damaged.**

  Otherwise, it could result in injuries or fire.

- **Do not touch the inverter while the input power is applied or after removed. It will remain energized for a up to 5 minutes.**

  Otherwise, you may get bodily injuries such as skin-burn or damage.

- **Do not apply power to a damaged inverter or to an inverter with parts missing even if the installation is complete.**

  Otherwise, electric shock could occur.

- **Do not allow lint, paper, wood chips, dust, metallic chips or other foreign matter into the drive.**

  Otherwise, fire or accident could occur.

OPERATING PRECAUTIONS

- **Make sure to tighten to the specific torque, do not over tighten the screw.**

  Otherwise, it could result in product damage.

1. Preface and Safety

This installation guide is applied to the SV-IS7 drive series Flange Option..

2. Product Overview

This option is designed to provide the functionality of installing a flange option on to the drive to extend the heat sink out the back of an enclosure to reduce the amount of heat inside the enclosure.

3. Before using the product

Perform the following tasks after receiving the flange option.

- Inspect the flange option for damage.

  If the flange option appears damaged upon receipt, contact the shipper immediately.

- Verify receipt of the correct model by checking the model number printed on the package of the flange option.

4. Contents

Capacity	FLANGE		Screw			Manual
	Up	Low	M5	M6	M12	
0.75~3.7kW-200V/400V	1	1	4			1
5.5~7.5kW-200V/400V	1	1	4			1
11~15kW-200V/400V	1	1	8			1
18.5~22kW-200V/400V	1	1	8			1
30~45kW-400V	1	1		8		1
55~75kW-400V	1	1		8		1
90~110kW-400V	1			4	2	1
132~160kW-400V	1			4	2	1
185~220kW-400V	1			4	2	1

5. Installation Procedure

◆ Flange Option Assembly and Installation Procedure

DANGER! Electrical Shock Hazard : Do not connect or disconnect wiring while the power is on. Failure to comply can result in death or serious injury.

Wiring and periodic inspections should be performed at least 10 minutes after disconnecting the input power

And after checking the DC link voltage is discharged with a meter (below DC 30V)

4.1 0.75~7.5kW-200V/400V

① Remove the Top Cover.

② Insert the Flange Option to fit on the product by fastening the top/bottom positions as shown in Figure 1.

③ Using the included bolt, tighten to the specific torque.

- M5 Screw Torque : 35 (kfg·cm) / 30 lb-in

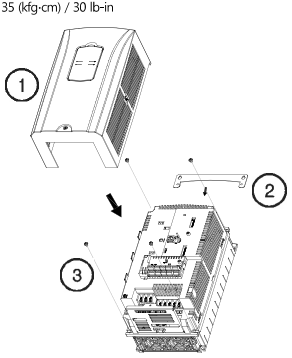


Figure 1. 0.75~7.5kW Flange Install and Side View

4.2 11~75kW-400V , 11~22kW-200V

① Insert the Flange Option to fit on the product by fastening the right/left positions as shown Figure 2.

② Using the included bolt, tighten to the specific torque.

- M5 Screw Torque : 35 (kfg·cm) / 30lb-in => Model : 11~22kW-200V/400V

- M6 Screw Torque : 58 (kfg·cm) /50lb-in => Model : 30~75kW-400V

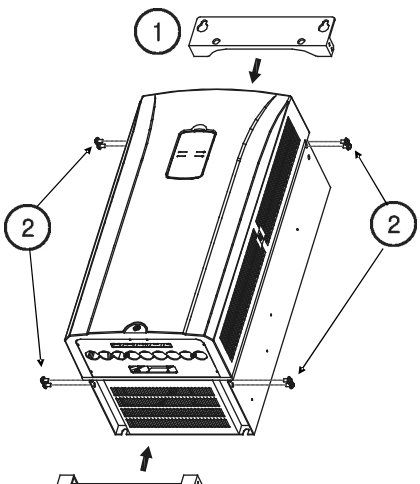


Figure 2. 11 - 75kW Flange Install and Side View

4.3 90~220kW-400V

① Insert the Flange Option to fit on the product by fastening the top position as shown in Figure 3.

② Using the included bolt, tighten to the specific torque.

- M12(2 points) : 480(kfg·cm) / 415 lb-in

- M6(8 points) : 58(kfg·cm) / 50 lb-in

- M5(8 points) : 35(kfg·cm) / 30 lb-in

③ Remove the bottom bracket (there are six screws).

④ Then rotate it 180 degrees and reassemble it . The mounting holes will now be closer to the front of the unit.

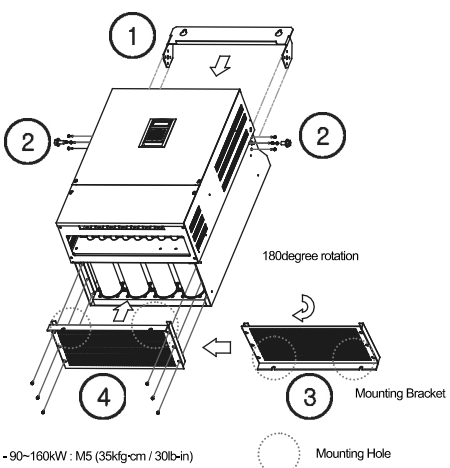
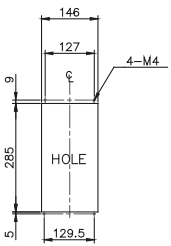
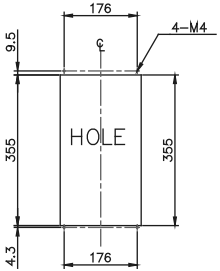


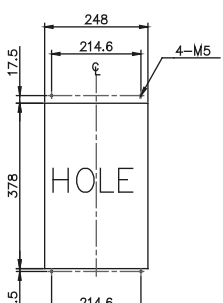
Figure 3. 90 – 220kW Flange Install and Side View

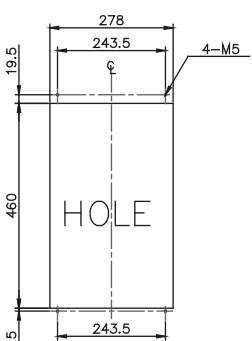
6. Flange Option Opening Size



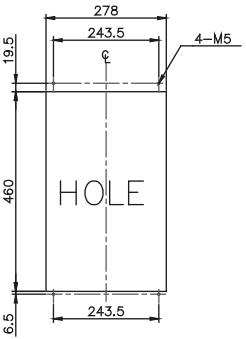


SV0008~0037iS7-2/4 SV0055~0075iS7-2/4

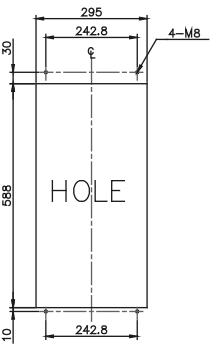




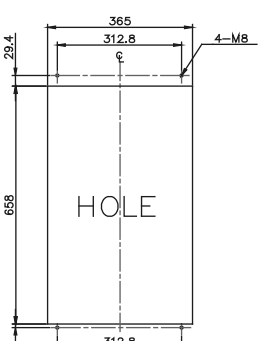
SV0110~0150iS7-2/4 SV0185~0220iS7-2



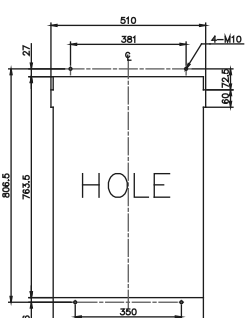
SV0185~0220iS7-4



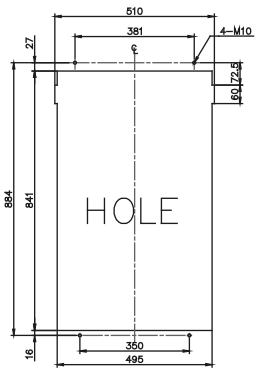
SV0300~0450iS7-4



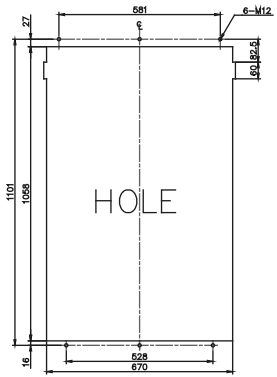
SV0550~0750iS7-4



SV900~1100iS7-4



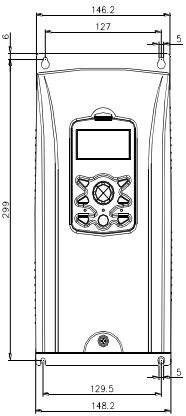
SV1320~1600iS7-4

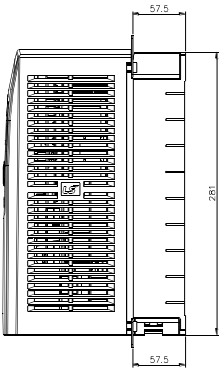


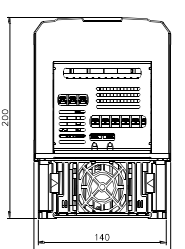
SV1850~2200iS7-4

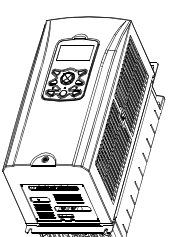
7. Product Size (Drive with Flange Option)

SV-IS7 0.75KW-200V/400V



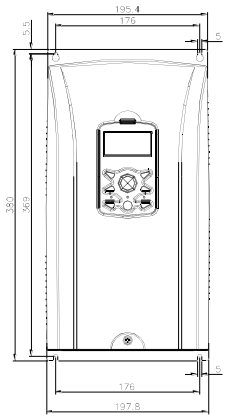


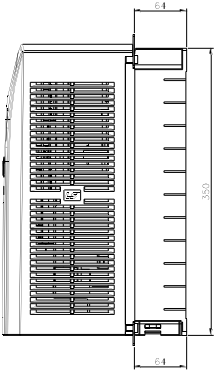


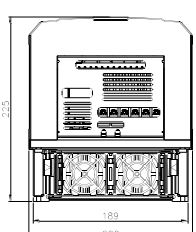


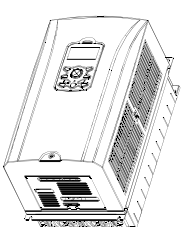
Drive + Flange

SV-IS7 5.5~7.5KW-200V/400V



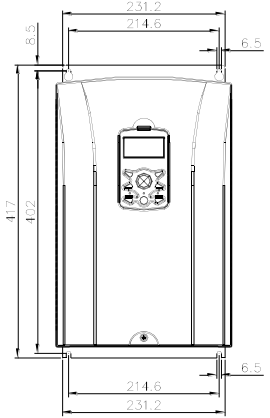


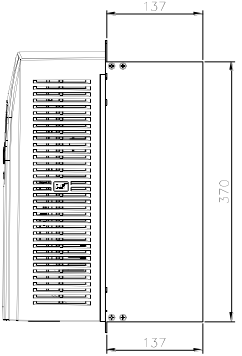


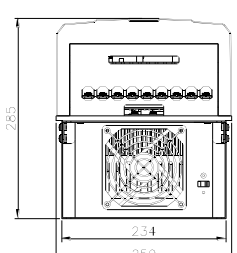


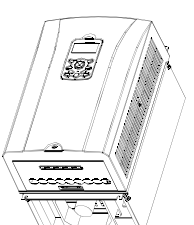
Drive + Flange

SV-IS7 11~15KW-200V/400V



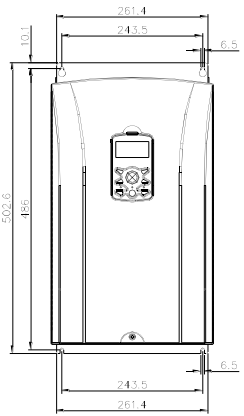


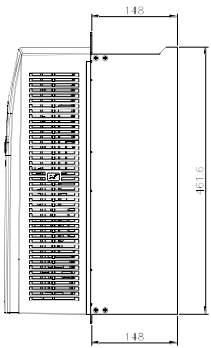


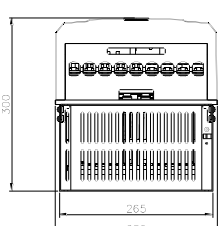


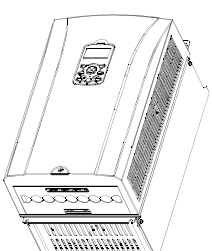
Drive + Flange

SV-IS7 18.5~22KW-200V



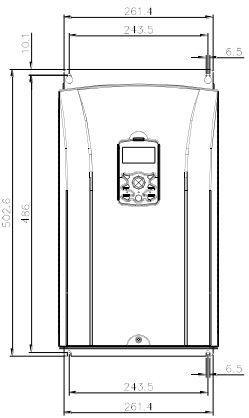


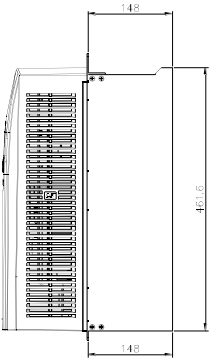


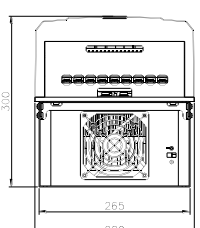


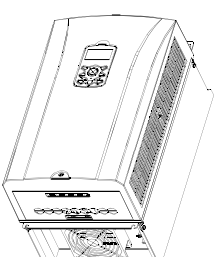
Drive + Flange

SV-IS7 18.5~22KW-400V



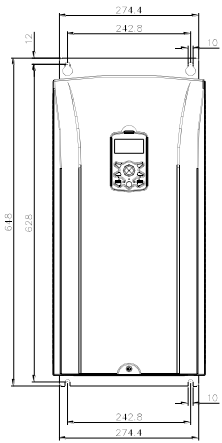




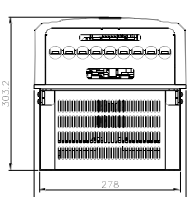


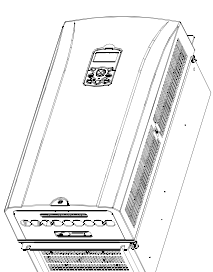
Drive + Flange

SV-IS7 30~45KW-400V



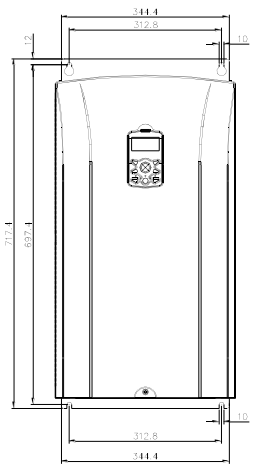


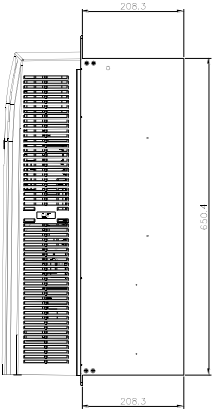


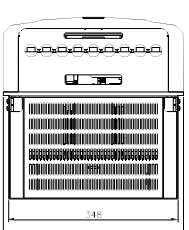


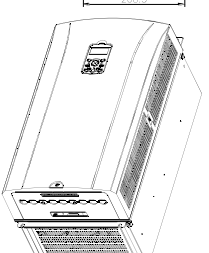
Drive + Flange

SV-IS7 55~75KW-400V



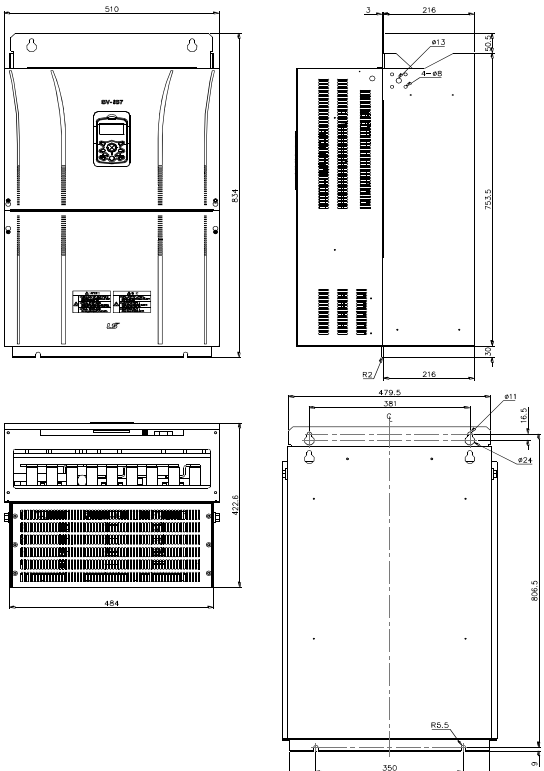






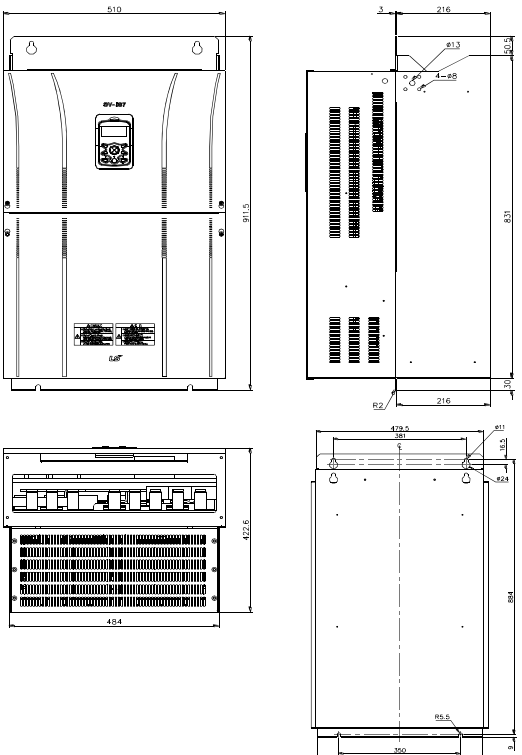
Drive + Flange

SV-IS7 90~110KW-400V



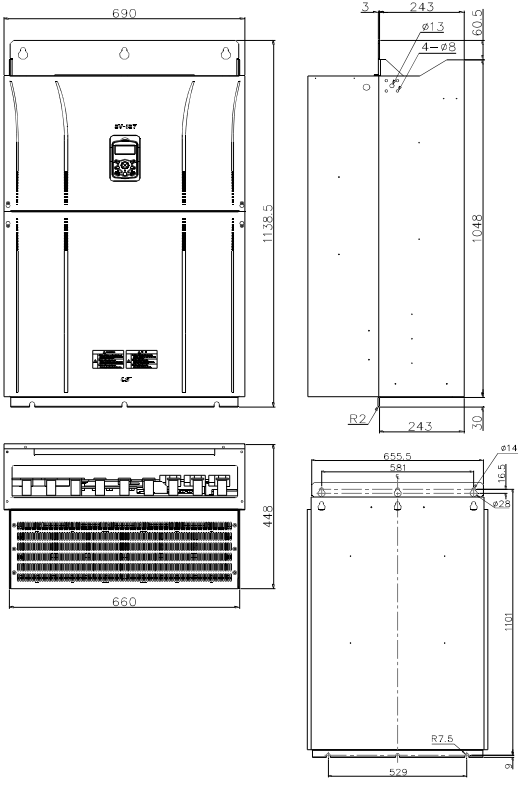
<BACK VIEW>

SV-IS7 132~160KW-400V



<BACK VIEW>

SV-IS7 185~220KW-400V



<BACK VIEW>

Product Warranty

Warranty Period

The warranty period for the purchased product is 24 months from the date of manufacture.

Warranty Coverage

1. The initial fault diagnosis should be conducted by the customer as a general principle.

   However, upon request, we or our service network can carry out this task for a fee.
   If the fault is found to be our responsibility, the service will be free of charge.

2. The warranty applies only when our products are used under normal conditions as specified in the handling instructions, user manual, catalog, and caution labels.
3. Even within the warranty period, the following cases will be subject to chargeable repairs:
   1) Replacement of consumables or lifespan parts (relays, fuses, electrolytic capacitors, batteries, fans, etc.)
   2) Failures or damage due to improper storage, handling, negligence, or accidents by the customer
   3) Failures due to the hardware or software design of the customer
   4) Failures due to modifications of the product without our consent

      (repairs or modifications recognized as done by others will also be refused, even if paid)
   5) Failures that could have been avoided if the customer's device, which incorporates our product, had been equipped with safety devices
      required by legal regulations or common industry practices.
   6) Failures that could have been prevented through proper maintenance and regular replacement of consumable parts as per the handling instructions and user manual
   7) Failures and damage caused by the use of inappropriate consumables or connected equipment
   8) Failures due to external factors, such as fire, abnormal voltage, and natural disasters like earthquakes, lightning, salt damage, and typhoons
   9) Failures due to reasons that could not have been foreseen with the scientific and technological standards at the time of our product shipment
   10) Other cases where the responsibility for failure, damage, or defect is acknowledged to lie with the customer

Table of Contents

1. Preface and Safety(머리말) 4

2. 제품 개요 4

3. 제품 사용 전 확인 사항 4

4. 제품 구성품 4

5. 설치 절차(Installation Procedure) 4

6. Flange 옵션 판넬 취부 홀 Size 8

7. 제품 Size(Flange 옵션 장착 시) 11

8. 개정 이력 21

LS ELECTRIC 인버터를 구입하여 주셔서 감사합니다.

안전을 위한 주의사항

- 안전을 위한 주의사항은 사고나 위험을 사전에 예방하여 제품을 안전하고 올바르게 사용하기 위한 것이므로 반드시 지켜주십시오.
- 주의사항은 "경고"와 "주의"의 두 가지로 구분되어 있으며 의미는 다음과 같습니다.

⚠ **경고** **지시사항을 위반할 때 심각한 상해나 사망이 발생 할 수 있는 경우**

⚠ **주의** **지시사항을 위반할 때 경미한 상해나 제품손상이 발생할 수 있는 경우**

- 제품과 사용설명서에 표시된 그림기호의 의미는 다음과 같습니다.

⚠ 는 위험이 발생할 우려가 있으므로 주의하라는 기호입니다.

⚠ 는 감전의 가능성이 있으므로 주의하라는 기호입니다.

- 사용설명서를 읽고 나서 사용하는 사람이 언제라도 볼 수 있는 장소에 보관 하십시오.
- LS ELECTRIC 인버터의 기능을 충분하고 안전하게 사용하기 위하여 이 사용 설명서를 잘 읽어 보십시오.

⚠ 경 고

- **전원이 입력된 상태이거나 운전 중에는 덮개를 열지 마십시오.**
  감전의 원인이 됩니다.
- **덮개가 열린 상태에서는 운전하지 마십시오.**
  고전압 단자나 충전부가 노출되므로 감전의 원인이 됩니다.
- **전원이 입력되지 않았을 때에도 배선작업이나 정기 점검 이외에는 덮개를 열지 마십시오.**
  인버터 내부에는 전원이 차단되었을 때도 장시간 전압이 충전되어 있으므로 감전의 원인이 됩니다.
- **배선 작업이나 정기 점검을 할 때에는 전원을 차단하고 10분 이상 지나고 나서 테스터 등으로 인버터의 직류 전압이 방전된 것을 확인하십시오.**
  감전의 원인이 됩니다. (DC 30V 이하)
- **젖은 손으로 스위치를 조작하지 마십시오.**
  감전의 원인이 됩니다.
- **케이블의 피복이 손상되어 있을 때에는 사용하지 마십시오.**
  감전의 원인이 됩니다.
- **케이블에 무리한 부담을 주는 무거운 물체를 올려 놓고 사용하지 마십시오.**
  케이블의 피복이 손상되어 감전의 원인이 됩니다.

⚠ 주 의

- **가연성 물질 가까이에 설치하지 마십시오.**
  가연성 재질에 설치하거나 가연성 물질 가까이에 부착할 때는 화재의 원인이 됩니다.
- **인버터 고장 시 인버터 입력전원을 차단하십시오.**
  차단하지 않으면 2차 사고에 의한 화재가 발생될 수 있습니다.
- **전원이 연결된 상태이거나 전원이 차단되고 나서 10분 사이에는 인버터를 만지지 마십시오.**
  고온 상태이므로 인체 접촉 시 화상의 원인이 됩니다.
- **제품 및 부품이 손상되어 있는 인버터에는 설치가 완료된 경우라도 전원을 입력하지 마십시오.**
  감전의 원인이 됩니다.
- **인버터 내부에는 나사나 금속물질 및 물, 기름 등의 물질이 들어가지 않게 하십시오.**
  화재의 원인이 됩니다.

사용상 주의사항

- **규정된 토크로 조립하여 주시고 규정 토크 이상으로 나사를 체결하지 마십시오.**
  제품 파손의 원인이 됩니다.

1. Preface and Safety(머리말)

본 설치 가이드는 SV-IS7 인버터 시리즈의 Flange Option에 적용 됩니다.

2. 제품 개요

본 옵션은 인버터 방열을 원활하게 하기 위해 Heatsink부를 판넬 외부에 취부 할 수 있도록 설계 되었습니다.

3. 제품 사용 전 확인 사항

제품을 수령한 후 다음 사항을 확인하여 주시기 바랍니다.

- 제품 파손이 없는지 확인해 주시기 바랍니다.

  만약 제품의 파손이 있을 경우 즉시 shipper에 연락 하시기 바랍니다.

- 제품 박스 명판에 적혀있는 모델이 맞는지 확인해 주시기 바랍니다.

4. 제품 구성품

용량	FLANGE		나사			매뉴얼
	상	하	M5	M6	M12	
0.75~3.7kW-200V/400V	1	1	4			1
5.5~7.5kW-200V/400V	1	1	4			1
11~15kW-200V/400V	1	1	8			1
18.5~22kW-200V/400V	1	1	8			1
30~45kW-400V	1	1		8		1
55~75kW-400V	1	1		8		1
90~110kW-400V	1			4	2	1
132~160kW-400V	1			4	2	1
185~220kW-400V	1			4	2	1

5. 설치 절차(Installation Procedure)

◆ 제품 조립 및 설치 절차

전기적 감전 위험 : 전원이 연결된 상태에서는 Wire를 연결하지 마십시오. 감전에 원인이 됩니다.

배선 작업이나 정기 점검을 할 때에는 전원을 차단하고 10분 이상 지나고 나서 테스터기 등으로 인버터의 직류 전압이 방전된 것을 확인 하십시오.(DC 30V 이하)

4.1 0.75~7.5kW-200V/400V

① 제품 Top Cover를 분리 합니다.

② 그림 1 과 같이 제품 위/아래에 Flange 옵션을 삽입합니다.

③ 동봉된 나사를 이용하여 규정된 토크값으로 단단히 고정합니다.

- M5 나사 토크 : 35 (kfg·cm)

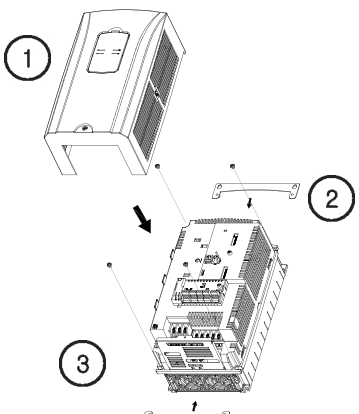


그림 1. Install and Side View

4.2 11~75kW-400V/11~22kW-200V

① 그림2 와 같이 Flange Option을 제품 상/하단에 삽입 합니다.

②동봉된 나사를 이용하여 규정된 토크값으로 단단히 고정합니다.

- M5 나사 토크 : 35 (kfg-cm) 해당Model : 11~22kW-200/400V

- M6 나사 토크 : 58 (kfg-cm) 해당Model : 30~75kW-400V

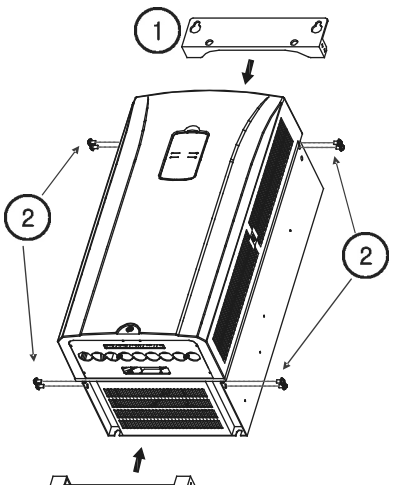


그림 2. Install and Side View

4.3 90~220kW-400V

① 그림3 과 같이 Flange Option을 제품 상단 Base 쪽 체결 위치에 맞도록 삽입한다.

② 동봉된 나사를 이용하여 규정 토크를 적용하여 느슨하지 않도록 조여준다.

- M12 나사 토크 : 480 (kfg·cm)
- M6 나사 토크 : 58 (kfg·cm)
- M5 나사 토크 : 35 (kfg·cm)

③ 제품 하단 Base를 분리한다.

④ 그림과 같이 Base 분리 후 180도 회전 하여 나사 홈이 위로 오게 하여 재 조립한다.

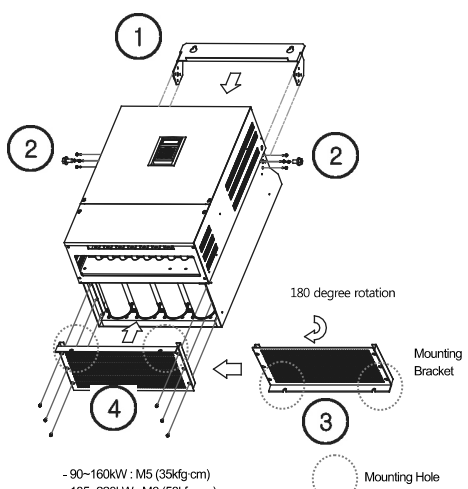
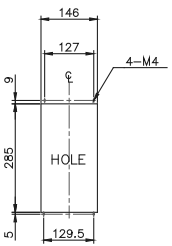
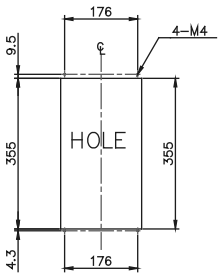


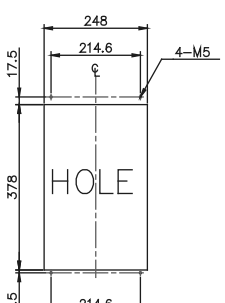
그림 3. Install and Side View

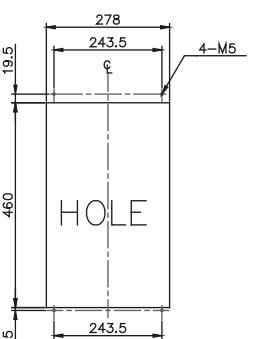
6. Flange 옵션 판넬 취부 홀 Size



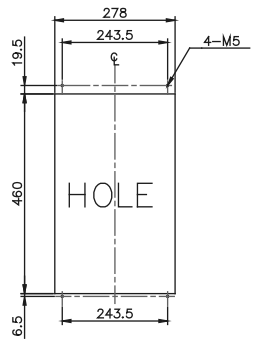


SV0008~0037iS7-2/4 SV0055~0075iS7-2/4

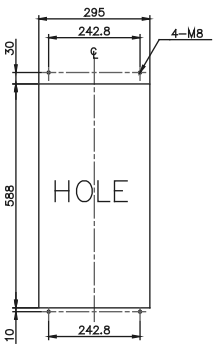




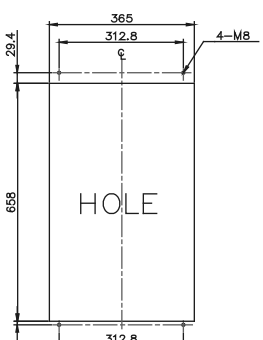
SV0110~0150iS7-2/4 SV0185~0220iS7-2



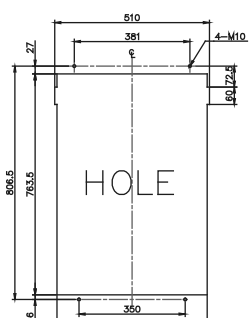
SV0185~0220iS7-4



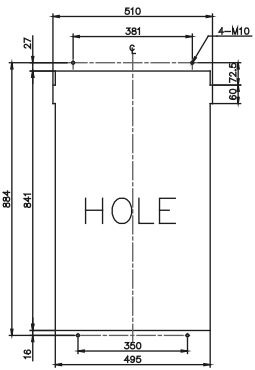
SV0300~0450iS7-4



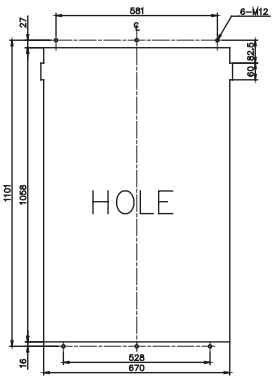
SV0550~0750iS7-4



SV900~1100iS7-4



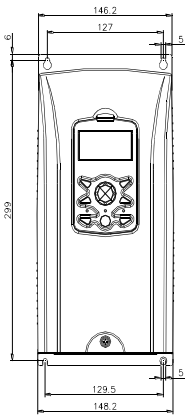
SV1320~1600iS7-4

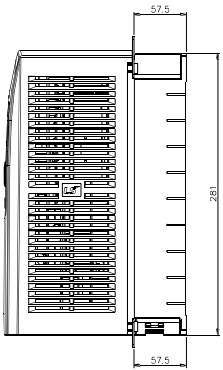


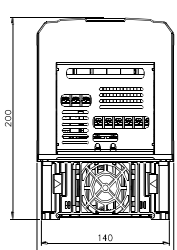
SV1850~2200iS7-4

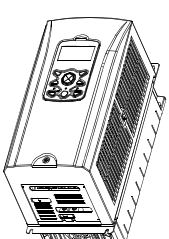
7. 제품 Size(Flange 옵션 장착 시)

SV-IS7 0.75kW-200V/400V



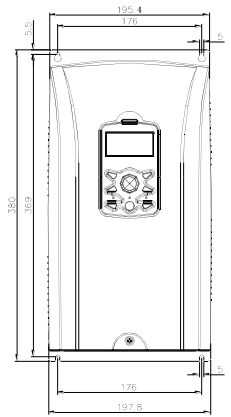


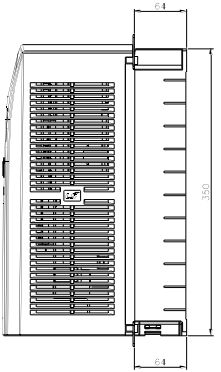


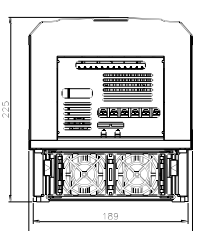


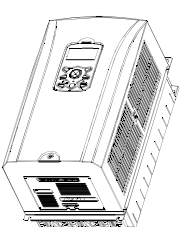
Drive + Flange

SV-IS7 5.5.~7.5kW-200V/400V



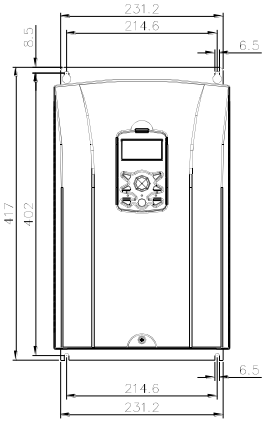


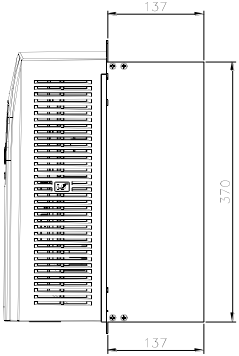


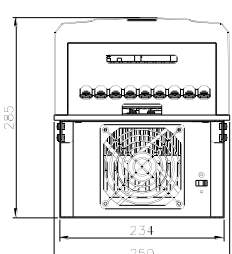


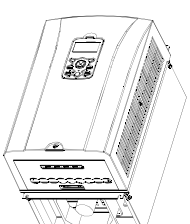
Drive + Flange

SV-IS7 11~15kW-200V/400V



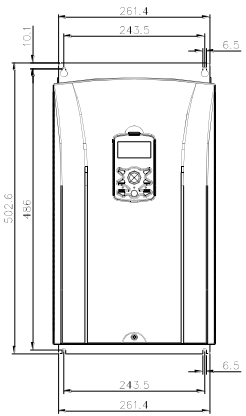


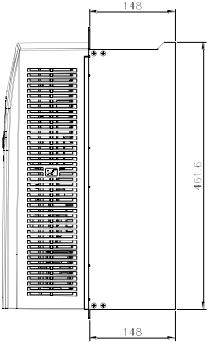


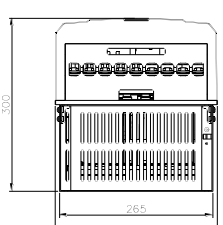


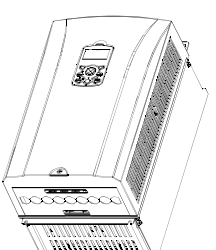
Drive + Flange

SV-IS7 18.5~22kW-200V



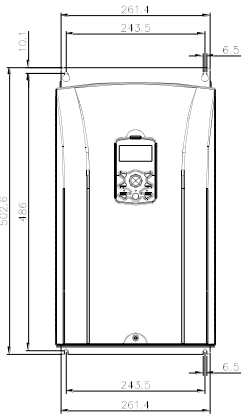


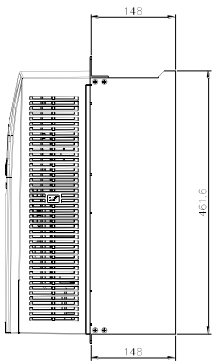


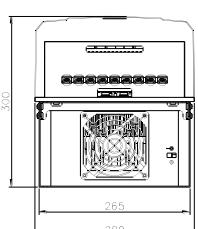


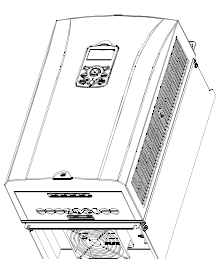
Drive + Flange

SV-IS7 18.5~22kW-400V



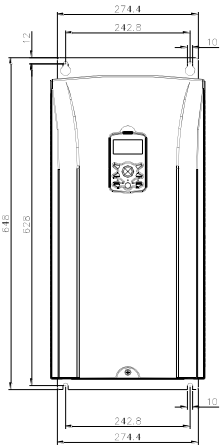


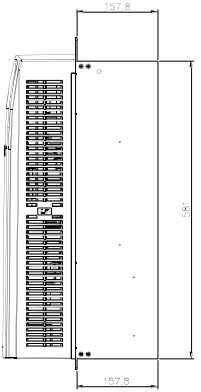


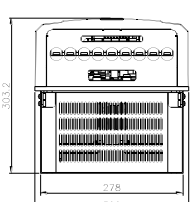


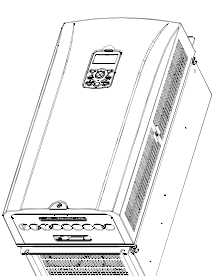
Drive + Flange

SV-IS7 30~45kW-400V



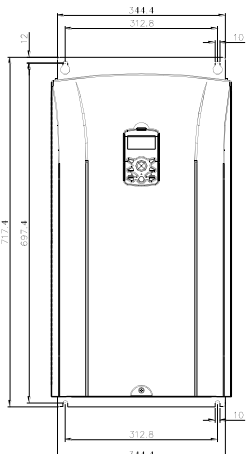


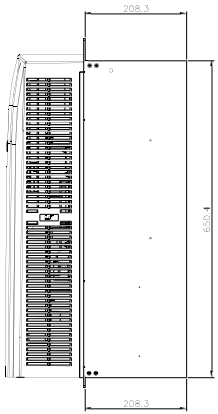


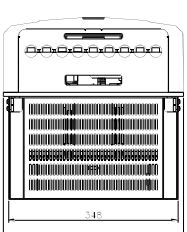


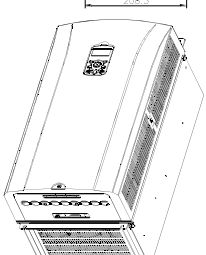
Drive + Flange

SV-IS7 55~75kW-400V



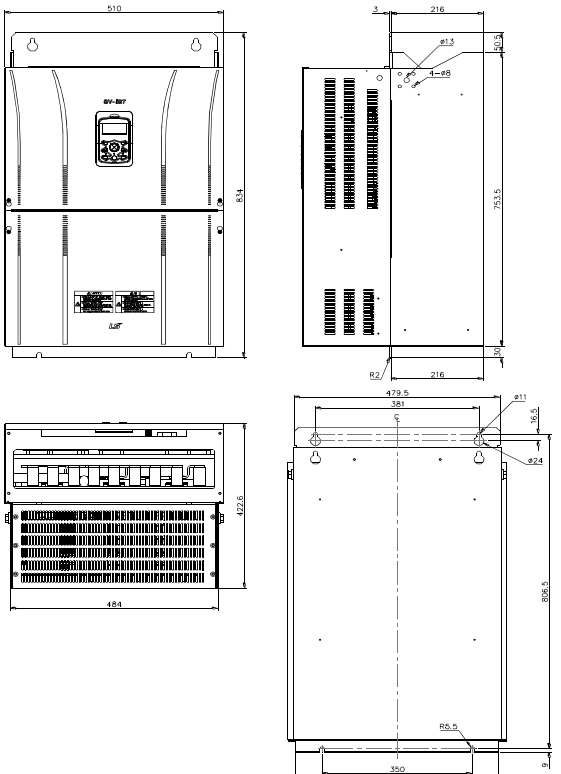






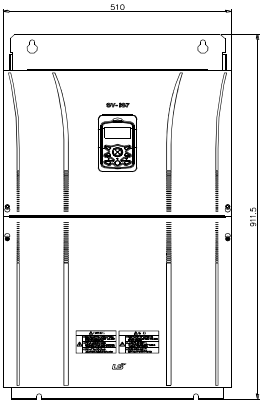
Drive + Flange

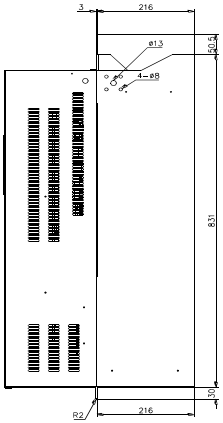
SV-IS7 90~110kW-400V

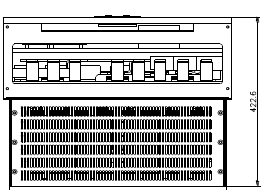


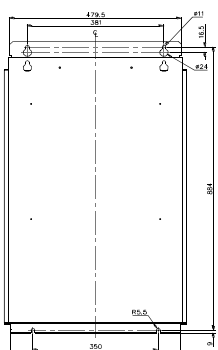
<BACK VIEW>

SV-IS7 132~160kW-400V



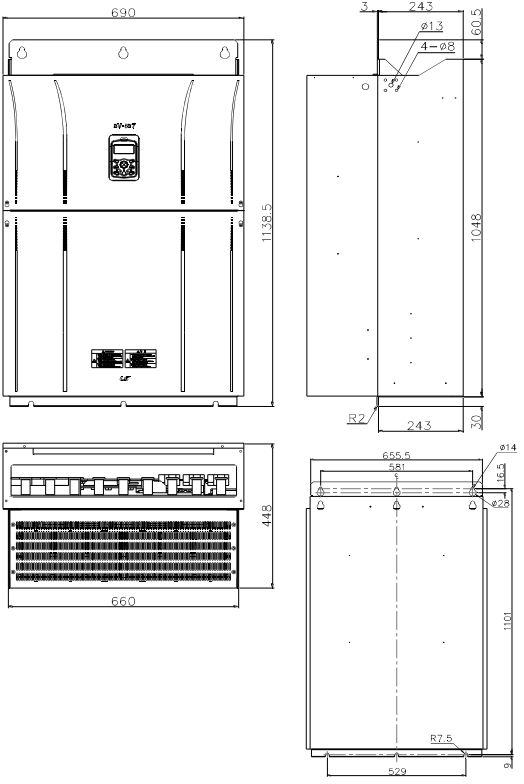






<BACK VIEW>

SV-IS7 185~220kW-400V



품질 보증서

품질 보증 기간

구입하신 제품의 무상 보증 기간은 제조일로부터 24개월입니다.

보증 범위

1. 1차 고장 진단은 기본적으로 귀사에서 실시하는 것을 원칙으로 합니다.
   다만 귀사 요청에 의해 당사 또는 당사 서비스망이 이 업무를 유상으로 대행할 수 있습니다.
   이 때, 고장 원인이 당사에 있는 경우에는 무상으로 합니다.
2. 당사 제품의 사용 환경, 사용 상태, 사용 방법 등이 취급설명서, 사용자 매뉴얼, 카탈로그, 주의 라벨 등에 기재된 여러 조건이나 주의사항에 따라 정상적인 상태에서 사용되고 있는 경우에만 해당됩니다.
3. 무상 보증 기간내라 하더라도 다음의 경우에는 유상 수리가 됩니다.
   1) 소모, 수명 부품(릴레이, 퓨즈, 전해 CAP, 배터리, FAN 등)의 교환
   2) 고객의 부적절한 보관이나 취급, 부주의, 과실 등에 의하여 발생한 고장/손상의 경우
   3) 고객의 하드웨어 또는 소프트웨어 설계 내용에 기인한 고장
   4) 당사의 양해 없는 제품의 개조 등에 의한 고장
      (당사 이외에서 수리, 개조 등을 했다고 인정되는 경우에는 유상이라도 수리를 거절)
   5) 당사 제품이 고객의 기기에 구성되어 사용된 경우, 고객의 기기가 받고 있는 법적 규제에 의한 안전 장치 또는 업계의 통념상 갖추어야 한다고 판단되는 기능/구조 등을 갖추고 있었으면 회피할 수 있었다고 인정되는 고장
   6) 취급설명서, 사용 설명서 등에 따른 유지 보수 및 소모성 부품이 정상적으로 보수/교환 되었다면 예방할 수 있었던 고장
   7) 연결된 기타 장비 및 부적절한 소모품의 사용으로 인해 제품에 발생한 고장 및 손상
   8) 화재, 이상 전압 등의 불가항력에 의한 외부 요인 및 지진, 낙뢰, 염해, 풍수해 등의 천재지변에 의한 고장
   9) 당사 출하 시의 과학 기술 수준에서는 예견할 수 없었던 사유에 의한 고장
   10) 그 외 귀사에 의한 고장, 손상 또는 결함의 책임으로 인정되는 경우

Memo

Memo

Memo

Memo

Memo

■ **Headquarter**

LS-ro 127(Hogye-dong) Dongan-gu, Anyang-si, Gyeonggi-Do, 14119, Korea

■ **Seoul Office**

LS Yongsan Tower, 92, Hangang-daero, Yongsan-gu, Seoul, 04386, Korea

Tel: 82-2-2034-4033, 4888, 4703 Fax: 82-2-2034-4588

E-mail: automation@lselectric.co.kr

■ **Overseas Subsidiaries**

- **LS ELECTRIC Japan Co., Ltd. (Tokyo, Japan)**

Tel: 81-3-6268-8241 E-Mail: jschuna@lselectric.biz

- **LS ELECTRIC (Dalian) Co., Ltd. (Dalian, China)**

Tel: 86-411-8730-6495 E-Mail: jlheo@lselectric.com.cn

- **LS ELECTRIC (Wuxi) Co., Ltd. (Wuxi, China)**

Tel: 86-510-6851-6666 E-Mail: sblee@lselectric.co.kr

- **LS ELECTRIC Vietnam Co., Ltd.**

Tel: 84-93-631-4099 E-Mail: jhchoi4@lselectric.biz (Hanoi)

Tel: 84-28-3823-7890 E-Mail: sjbaik@lselectric.biz (Hochiminh)

- **LS ELECTRIC Middle East FZE (Dubai, U.A.E.)**

Tel: 971-4-886-5360 E-Mail: salesme@lselectric.biz

- **LS ELECTRIC Europe B.V. (Hoofddorf, Netherlands)**

Tel: 31-20-654-1424 E-Mail: europartner@lselectric.biz

- **LS ELECTRIC America Inc. (Chicago, USA)**

Tel: 1-800-891-2941 E-Mail: sales.us@lselectricamerica.com

■ **Overseas Branches**

- **LS ELECTRIC Tokyo Office (Japan)**

Tel: 81-3-6268-8241 E-Mail: jschuna@lselectric.biz

- **LS ELECTRIC Beijing Office (China)**

Tel: 86-10-5095-1631 E-Mail: khpaek@lselectric.com.cn

- **LS ELECTRIC Shanghai Office (China)**

Tel: 86-21-5237-9977 E-Mail: tsjun@lselectric.com.cn

- **LS ELECTRIC Guangzhou Office (China)**

Tel: 86-20-3818-2883 E-Mail: chenxs@lselectric.com.cn

- **LS ELECTRIC Chengdu Office (China)**

Tel: 86-28-8670-3201 E-Mail: yangcf@lselectric.com.cn

- **LS ELECTRIC Qingdao Office (China)**

Tel: 86-532-8501-2065 E-Mail: wangzy@lselectric.com.cn

- **LS ELECTRIC Nanjing Office (China)**

Tel: 86-25-8467-0005 E-Mail: ylong@lselectric.com.cn

- **LS ELECTRIC Bangkok Office (Thailand)**

Tel: 66-90-950-9683 E-Mail: sjleet@lselectric.biz

- **LS ELECTRIC Jakarta Office (Indonesia)**

Tel: 62-21-2933-7614 E-Mail: dioh@lselectric.biz

- **LS ELECTRIC Moscow Office (Russia)**

Tel: 7-499-682-6130 E-Mail: jdpark1@lselectric.biz

- **LS ELECTRIC America Western Office (Irvine, USA)**

Tel: 1-949-333-3140 E-Mail: ywyun@lselectricamerica.com

www.lselectric.co.kr

LS ELECTRIC Co., Ltd.

고객센터 및 A/S

고객센터 – 신속한 서비스, 든든한 기술지원

전화.1544-2080 | 홈페이지. www.lselectric.co.kr

사용설명서의 사양은 지속적인 제품 개발 및 개선으로 인해 예고없이 변경될 수 있습니다.

■ 본사 : 서울특별시 용산구 한강대로 92 LS용산타워 14층

■ 구입문의

서울영업	TEL: (02)2034-4623~38	FAX: (02)2034-4057
부산영업	TEL: (051)310-6855~60	FAX: (051)310-6851
대구영업	TEL: (053)603-7741~8	FAX: (053)603-7788
서부영업 (광주)	TEL: (062)510-1891~92	FAX: (062)526-3262
서부영업 (대전)	TEL: (042)820-4240~42	FAX: (042)820-4298

■ A/S 문의

기술상담센터	TEL: (전국)1544-2080	FAX: (031)689-7290
서울/경기 Global 지점팀	TEL: (031)689-7112	FAX: (031)689-7113
천안 Global 지점팀	TEL: (041)550-8308~9	FAX: (041)554-3949
부산 Global 지점팀	TEL: (051)310-6922~3	FAX: (051)310-6851
대구 Global 지점팀	TEL: (053)603-7751~4	FAX: (053)603-7788
광주 Global 지점팀	TEL: (062)510-1885~6	FAX: (062)526-3262

■ 교육 문의

연수원	TEL: (043)268-2631~2	FAX: (043)268-4384
서울/경기교육장	TEL: (031)689-7107	FAX: (031)689-7113
부산교육장	TEL: (051)310-6860	FAX: (051)310-6851
대구교육장	TEL: (053)603-7744	FAX: (053)603-7788

■ 기술 문의

기술상담센터	TEL: (전국)1544-2080	FAX: (031)689-7290
동탄 산진 (안양)	TEL: (031)479-4785~6	FAX: (031)479-4784
나노프레이션 (대전)	TEL: (042)336-7797	FAX: (042)636-8016
신공 ENG (부산)	TEL: (051)319-1051	FAX: (051)319-1052
에이엔디시엘 (부산)	TEL: (051)319-0668	FAX: (051)319-0669

■ LS ELECTRIC은 전 세계 주요 국가에 현지 서비스 파트너 사를 보유하고 있으며, 상세 사항은 [홈페이지 (www.lselectric.co.kr) 서비스센터 안내]를 참고하여 주십시오.

■ 서비스 지정점

엘 산진 (서울)	TEL: (02)462-3053	FAX: (02)462-3054
TPI시스템 (서울)	TEL: (02)895-4803~4	FAX: (02)6264-3545
우진산전 (의정부)	TEL: (031)877-8273	FAX: (031)878-8279
신진시스템 (안산)	TEL: (031)494-9607	FAX: (031)494-9608
드림시스템 (광역)	TEL: (031)665-7520	FAX: (031)667-7520
스마트산전 (안양)	TEL: (031)430-4629	FAX: (031)430-4630
세아산전 (안양)	TEL: (031)340-5228	FAX: (031)340-5229
성창M&S (안천)	TEL: (032)588-3750	FAX: (032)588-3751
파란자동화 (천안)	TEL: (041)554-8308	FAX: (041)554-8310
태명시스템 (대전)	TEL: (042)670-7363	FAX: (042)670-7364
디에스산전 (청주)	TEL: (043)237-4816	FAX: (043)237-4817
조은시스템 (부산)	TEL: (051)319-3923	FAX: (051)319-3924
산전테크 (부산)	TEL: (051)319-1025	FAX: (051)319-1026
서진산전 (울산)	TEL: (052)227-0335	FAX: (052)227-0337
대명시스템 (대구)	TEL: (053)564-4370	FAX: (053)564-4371
제이엔산전 (포항)	TEL: (054)284-6050	FAX: (054)284-6051
지이피시스템 (구미)	TEL: (054)465-2304	FAX: (054)465-2315
제일시스템 (창원)	TEL: (055)273-6778	FAX: (050)4005-6778
지유시스템 (광주)	TEL: (062)714-1765	FAX: (062)714-1766
크리아FA (익산)	TEL: (063)838-8002	FAX: (063)838-8001
상주세원사 (전주)	TEL: (063)213-6900~1	FAX: (063)213-6902

■ 해외 서비스센터 – 중국사무소

Shanghai (상해)	TEL: (8621)5237-9977	FAX: (8621)5237-7192
Beijing (북경)	TEL: (8610)5095-1617	FAX: (8610)5095-1620
Guangzhou (광주)	TEL: (8620)3818-2885	FAX: (8620)3818-2886
Chengdu (성도)	TEL: (8628)8670-3201	FAX: (8628)8670-3203
Qingdao (청도)	TEL: (86532)8501-2065	FAX: (86532)8501-6057

10310001504

- 지속적인 제품 개선으로 본 매뉴얼의 내용과 제품 기능에 일부 차이가 있을 수 있습니다.
LS ELECTRIC은 이로 인한 손해, 배상에 책임을 지지 않으므로 제품을 사용 하시기 전에 반드시 매뉴얼과 제품의 버전을 확인 하시기 바랍니다.

ⓒ LS ELECTRIC Co., Ltd 2020 All Right Reserved.

SV-iS7 / 2020.06