



High Torque Performance and Precise Control

STARVERT *iS7*

0.75~75kW 3Phase 200 ~ 230Volts

0.75~160kW 3Phase 380 ~ 480Volts

LS *IS*



User-Friendly Options

Diverse communication options, expansion I/O options, PLC options, encoder options, IP54 enclosure options



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iS7 generates a more powerful performance through its superior V/F control, V/F PG, slip compensation, and sensorless vector control. The iS7 focuses on a user-friendly interface and environment-friendly features including a wide graphic LCD keypad, user & macro group support, electro-thermal functions for motor protection, and protection for input/output phase loss.



The iS7 sets the world standard for drives (VFDs) because of its features that meet all of your needs in AC drives. The iS7 offers powerful performance, flexibility through diverse options, and a more convenient and user-friendly interface. The iS7 offers more than you can imagine.



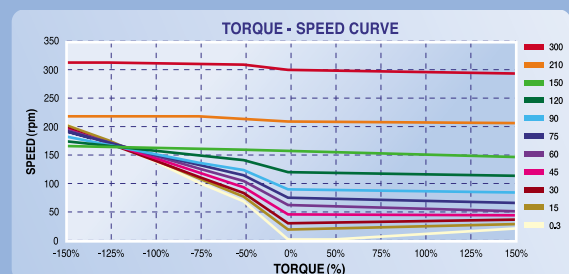
iS7 is dependable because it has high performance and reliability.



iS7 Feature | Reliability & High Performance

Reliability

- Powerful electric current type sensorless vector control
Our iS7 technology includes a competitive and strong low-speed torque control and a speed-precision-driven vector algorithm.
- Speed control range 100:1
- Extremely low torque control capability: 0.1Hz/150% real torque
- Max. torque control capability within the restoration range

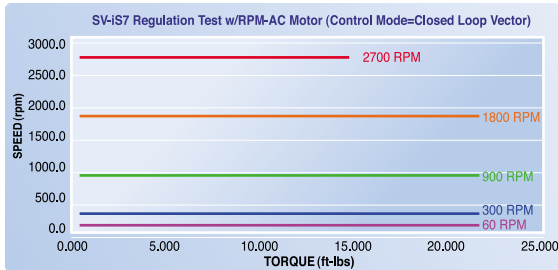


High Performance

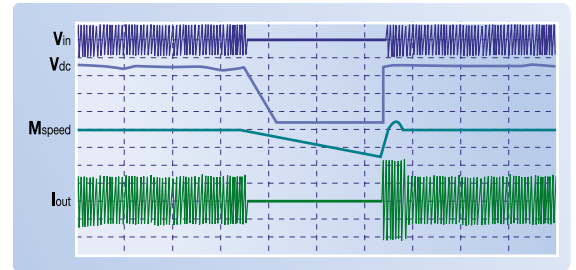
➤ **Sensored vector realizing precise speed/torque control**

In the entire speed range including zero speed, powerful torque (more than 250%) performance is materialized through receiving Max. 200kHz frequency pulse via encoder-dedicated board.

- Speed control range 1000:1
- Instant Max. torque control capability 250%
- 50Hz speed control response



➤ **Ride-through (LV trip delay) for sudden power loss**

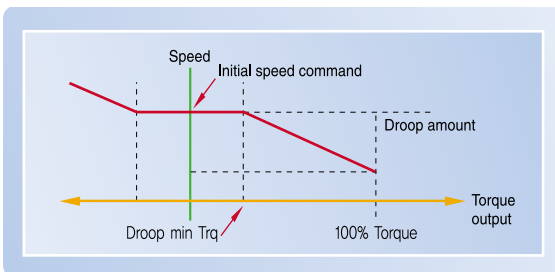


Powerful Performance

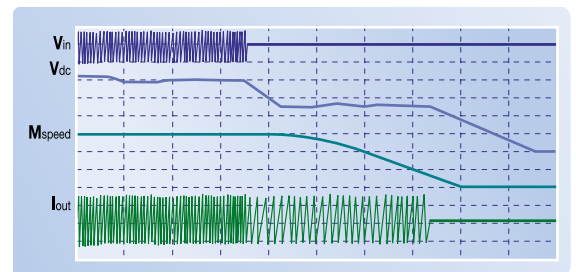
V/F control, V/F PG, slip compensation, sensorless vector control

➤ **Automatic torque balance droop control**

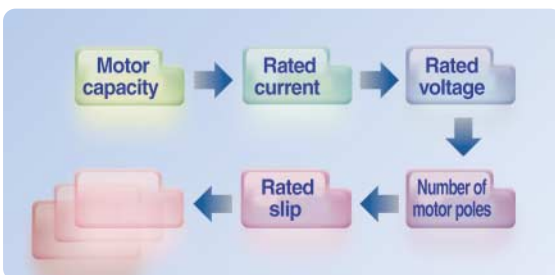
Droop control algorithm adjusts changeable torque driven by speed. This algorithm is easily applicable to open loop linking driving and load sharing driving.



➤ **Kinetic Energy Buffering (KEB) for a stable system stop in case of power loss or failure**



➤ **Easy start parameter setting**



➤ **Power and flux braking for maximum deceleration**

iS7 is flexible because it is easily expandable.

User-Friendly Options

Diverse communication options, expansion I/O options, PLC options, encoder options, IP54 enclosure options

iS7 Feature | **Flexibility & Expansion**

Flexibility

➤ **iS7 offers options with flexibility and expandability.**

- Built-in Built in RS485 & Modbus-RTU communication
- Profibus-DP, DeviceNet, LonWorks options
- Expandable I/O options: Max. input 11 points, Max. output 6 points
- PLC options: Max. input 14 points, Max. output 7 points for Master-K platform
- Encoder options
- IP54 enclosure options

➤ **PLC Card**

- Master-K 120S platform
- Normal input 6 points (Sink/Source selectable), Max. input 14 points when expanded
- Normal output 4 points (N.O. Relay), Max. output 7 points when expanded
- RTC (Real Time Clock)
- KGL WIN operating system



➤ **Encoder Card**

- Closed loop control
- Pulse train reference
- 5/12/15 V insulated power supply
- Line driver or open collector
- 200kHz Max. input frequency
- Signal loss detection



➤ **Profibus-DP Card**

- Profibus dedicated connector
- Max. 12Mbps communication speed
- Max. 32 stations per segment
- Bus topology
- Enhanced on-line diagnosis



➤ Ethernet Card

- Modbus TCP, Ethernet IP Protocol support
- 10Mbps, 100Mbps communication speed
- Half duplex, full duplex support
- Auto negotiation
- Max. 100m(328ft.) transmission distance
- CSMA/CD communication access method



➤ LonWorks

- 78kbps communication speed
- Free/bus topology
- Resistance built-in per topology
- Max. 2700m (8858 ft.) connection distance (bus topology)



➤ DeviceNet

- Communication speed: 125kbps, 250kbps, 500kbps
- Free/Bus topology
- Max. 64 node connection points
- Max. 500m (1640 ft.) transmission distance (125kbps)



➤ I/O Expansion Card

- Insulated I/O 3 points each
- Ext-1
Analog voltage (-10~10V) I/O 1 point
Analog current (0~20mV) I/O 1 point
- Ext-2
Analog voltage (-10~10V) I/O 2 points
Analog current (0~20mV) I/O 2 points



➤ R-Net Card

- 1Mbps Communication speed
- Manchester Biphase-L Frame synchronization
- Max. 64 node connection points
- Max. 750m transmission distance (segment each)



➤ Built-in RS485 & Modbus-RTU

- Multi drop link focused RS485, Modbus built-in
- Connecting up to 16 AC drives
- Max. 1200m (3937 ft.) communication distance (valid distance: 700m (2297 ft.))
- Protection algorithm under command lost
- Real time running and monitoring with drive view software

➤ CanOpen Card

- 1Mbps communication speed
- Bus Topology
- Max. 64 node connection points (include master)
- PDO, SDO, Sync, NMC communication support
- Support profile:
PDO1 (CiA402 drive & motion control device profile)
PDO3 (LS Profile)



➤ CC-Link Card

- 10Mbps communication speed
- Connecting up to 42 AC drives
- Station type: Remote device station
- 1 connection point for 1 AC drive

➤ Drive Copy Unit (UX-07V1)

- Support products: iS7, iE5
- Support function:
Parameter copy, RS485 converter
- Copy speed: 9,600bps (iE5) / 19,200bps (iS7)
- Max. save parameter: 5 Sets
- Converter support speed:
1,200 / 2,400 / 9,600 / 19,200 / 38,400 bps

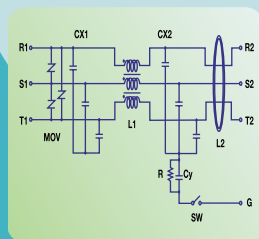
iS7 is convenient because it has a user friendly interface.



iS7 Feature | Convenience & Environment

Convenience Environment

- EMC filter (in conformity with EN61800-3) built-in for protection from excessive electronic distortion



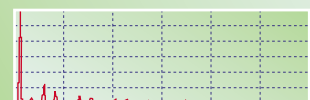
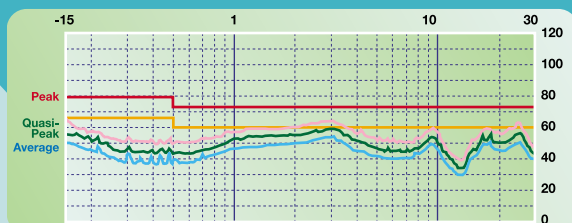
- DC reactor built-in for harmonic reduction and power factor improvement



Overloading rate	110% (VT rated standard)
THD	18 ~ 37%
power factor	94 ~ 96%
IP Level	IP21
Insulation Class	155°C (300°F)

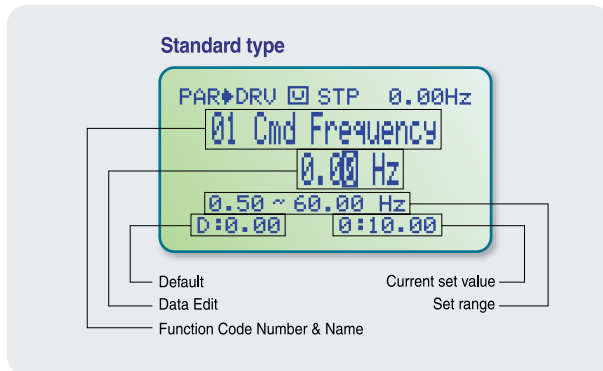


Input current and THD analysis

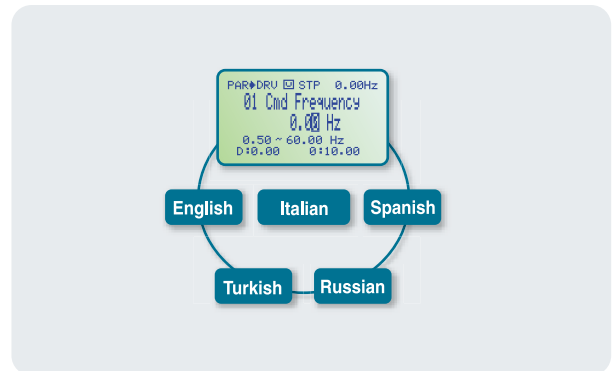


THD : 29.3% PF : 95.9%

➤ Widened graphic LCD keypad

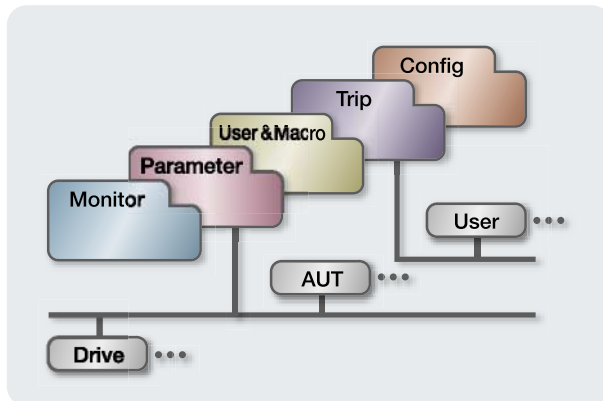


➤ Multi-language support (5 languages)

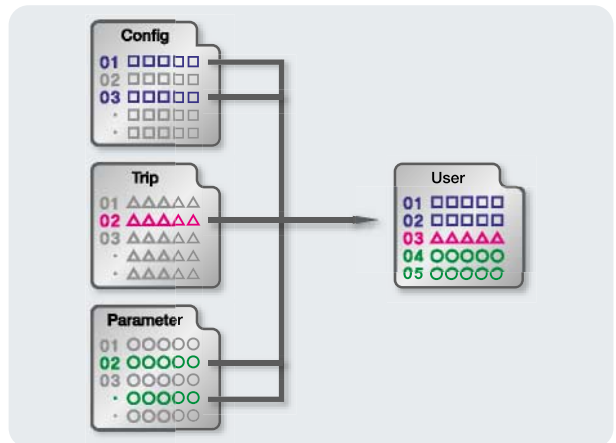


Convenience through User-friendly Interface

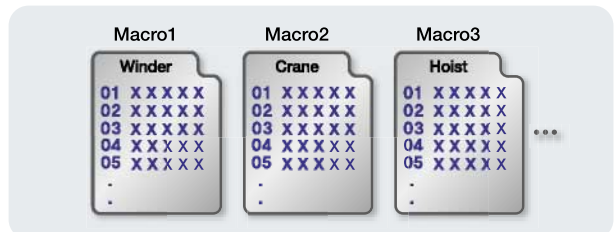
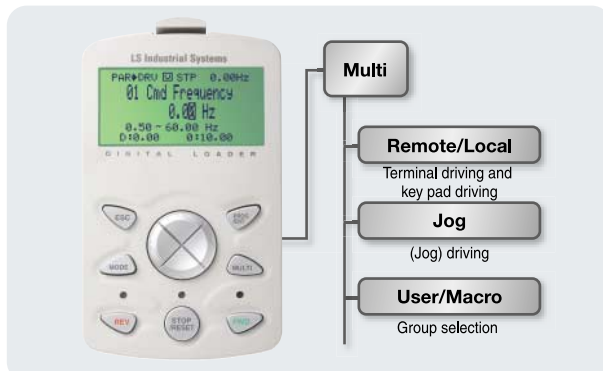
➤ Efficient architecture of 5-mode 15-parameter groups



➤ User & macro group support



➤ Multi-function key



➤ Protective functions dedicated motor control



Model and Type

Applied motors	220V class	400V class
0.75kW	SV0008 iS7-2NOFD	SV0008 iS7-4NOFD
1.5kW	SV0015 iS7-2NOFD	SV0015 iS7-4NOFD
2.2kW	SV0022 iS7-2NOFD	SV0022 iS7-4NOFD
3.7kW	SV0037 iS7-2NOFD	SV0037 iS7-4NOFD
5.5kW	SV0055 iS7-2NOFD	SV0055 iS7-4NOFD
7.5kW	SV0075 iS7-2NOFD	SV0075 iS7-4NOFD
11kW	SV0110 iS7-2NOFD	SV0110 iS7-4NOFD
15kW	SV0150 iS7-2NOFD	SV0150 iS7-4NOFD
18.5kW	SV0185 iS7-2NOFD	SV0185 iS7-4NOFD
22kW	SV0220 iS7-2NOFD	SV0220 iS7-4NOFD
30kW	SV0300 iS7-2SO	SV0300 iS7-4NOD
37kW	SV0370 iS7-2SO	SV0370 iS7-4NOD
45kW	SV0450 iS7-2SO	SV0450 iS7-4NOD
55kW	SV0550 iS7-2SO	SV0550 iS7-4NOD
75kW	SV0075 iS7-2SO	SV0750 iS7-4NOD
90kW		SV0900 iS7-4SOD
110kW		SV1100 iS7-4SOD
132kW		SV1320 iS7-4SOD
160kW		SV1600 iS7-4SOD

SV	008	iS7	-	2	N	O	F	D	W
LS Inverter Starvert Series	Capacity of Applied Motor	Series Name		Input Voltage					Web version
	0008 0.75 [kW]	Wide-Use Inverter		2 3-Phase 200~230[V]					Blank Normal Type
	0015 1.5 [kW]			4 3-Phase 380~480[V]	Keypad			DCR	W Web Customized
	0022 2.2 [kW]				N NON			Blank NON	
	0037 3.7 [kW]				S GLCD (Graphic Loader)			D DCR	
	0055 5.5 [kW]					Filter			
	0075 7.5 [kW]					Blank NON			
	0110 11 [kW]					UL			
	0150 15 [kW]					O Open	F EMC Filter		
	0185 18.5 [kW]					E Enclosed UL Type1			
	0220 22 [kW]					P Enclosed UL Type12			
	0300 30 [kW]								
	0370 37 [kW]								
	0450 45 [kW]								
	0550 55 [kW]								
	0750 75 [kW]								
	0900 90[kW]								
	1100 110[kW]								
	1320 132[kW]								
	1600 160[kW]								

Specification

Rated Input and Output: Input voltage of 200V class (0.75~22kW)

Type: SV□□□ iS7-2□			0008	0015	0022	0037	0055	0075	0110	0150	0185	0220
Motor Applied ^{*1)}	[HP]		1	2	3	5	7.5	10	15	20	25	30
	[kW]		0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
Rated Output	Rated Capacity [kVA] ^{*2)}		1.9	3.0	4.5	6.1	9.1	12.2	17.5	22.9	28.2	33.5
	Rated Current [A] ^{*3)}	CT	5	8	12	16	24	32	46	60	74	88
		VT	8	12	16	24	32	46	60	74	88	124
	Output Frequency [Hz]		0 ~ 400 [Hz] ^{*4)}									
	Output Voltage [V]		3-phase 200 ~ 230V ^{*5)}									
Rated Input	Available Voltage [V]		3-phase 200 ~ 230 VAC (-15% ~ +10%)									
	Frequency [Hz]		50 ~ 60 [Hz] (±5%)									
	Rated Current [A]	CT	8.3	12.9	18.6	24	32.9	41.4	58	69	88	96
		VT	7	10.6	14.8	21.5	28	42	52	60	75	107

2.1.2 Rated Input and Output: Input voltage of 200V class (30~75kw)

Type: SV□□□ iS7-2□			0300	0370	0450	0550	0750	-	-	-	-	-
Motor Applied ^{*1)}	[HP]		40	50	60	75	100	-	-	-	-	-
	[kW]		30	37	45	55	75	-	-	-	-	-
Rated Output	Rated Capacity [kVA] ^{*2)}		46	57	69	84	116	-	-	-	-	-
	Rated Current [A] ^{*3)}	CT	116	146	180	220	288	-	-	-	-	-
		VT	146	180	220	288	345	-	-	-	-	-
	Output Frequency [Hz]		0 ~ 400 [Hz] ^{*4)} (Sensorless -1: 0 ~ 300Hz, Sensorless -2, Vector. 0 ~ 120Hz)									
	Output Voltage [V]		3-phase 200 ~ 230V ^{*5)}									
Rated Input	Available Voltage [V]		3-phase 200 ~ 230 VAC (-15% ~ +10%)									
	Input Frequency		50 ~ 60 [Hz] (±5%)									
	Rated Current [A]	CT	121	154	191	233	305	-	-	-	-	-
		VT	152	190	231	302	362	-	-	-	-	-

※ Non DCR products are provided warranty service when used in CT (Heavy duty) load rating only.

Rated Input and Output: Input voltage of 400V class (0.75~22kW)

Type: SV□□□ iS7-2□			0008	0015	0022	0037	0055	0075	0110	0150	0185	0220
Motor Applied ^{*1)}	[HP]		1	2	3	5	7.5	10	15	20	25	30
	[kW]		0.75	1.5	2.2	3.7	5.5	7.5	11	15	18.5	22
Rated Output	Rated Capacity [kVA] ^{*2)}		1.9	3.0	4.5	6.1	9.1	12.2	18.3	22.9	29.7	34.3
	Rated Current [A] ^{*3)}	CT	2.5	4	6	8	12	16	24	30	39	45
		VT	4	6	8	12	16	24	30	39	45	61
	Output Frequency [Hz]		0 ~ 400 [Hz] ^{*4)}									
	Output Voltage [V]		3-phase 380 ~ 480V ^{*5)}									
Rated Input	Available Voltage [V]		3-phase 380 ~ 480 VAC (-15% ~ +10%)									
	Frequency		50 ~ 60 [Hz] (±5%)									
	Rated Current [A]	CT	4.3	7.2	10.6	15.4	21	25.8	38.7	43.85	56.9	57.4
		VT	3.5	5.3	7.3	10.8	13.8	22.5	26.1	33.2	40	52.2

^{*1)} Motor Applied indicates the maximum capacity of a standard 4 pole OTIS-LG motor.

^{*2)} Rated Capacity: the input capacity of a 200V class is based on 220V and that of a 400V class is based on 440V. The current rating is based on CT current.

^{*3)} The output of rated current is limited according to the setting of the carrier frequency (CON-04).

^{*4)} You can set the frequency at up to 300Hz by selecting 3, 4 Sensorless-1, Sensorless-2 as the control mode (DRV-09 Control Mode).

^{*5)} The maximum output voltage does not go over the supplied power voltage. You can select the output voltage as you want below the supplied power voltage.



Specifications

■ Rated Input and Output: Input voltage of 400V class (30~160kW)

Type: SV□□□ iS7-4□			0300	0370	0450	0550	0750	0900	1100	1320	1600	-
Motor Applied *1)		[HP]	40	50	60	75	100	120	150	180	225	-
		[kW]	30	37	45	55	75	90	110	132	160	-
Rated Output	Rated Capacity [kVA] *2)		46	57	69	84	116	139	170	201	248	-
	Rated Current [A] *3)	CT	61	75	91	110	152	183	223	264	325	-
		VT	75	91	110	152	183	223	264	325	370	-
	Output Frequency [Hz]		0 ~ 400 [Hz] (Sensorless-1: 0 ~ 300Hz, Sensorless-2, Vector: 0 ~ 120Hz) *4)									
	Output Voltage [V]		3-phase 380 ~ 480V *5)									
Rated Input	Available Voltage [V]		3-phase 380 ~ 480 VAC (-15% ~ +10%)									
	Frequency [Hz]		50 ~ 60 [Hz] (±5%)									
	Rated Current [A]	CT	57	69	83	113	154	195	239	286	362	-
		VT	90	109	123	162	195	237	282	350	403	-

*1) Motor Applied indicates the maximum capacity of a standard 4 pole OTIS-LG motor.

*2) Rated Capacity: the input capacity of a 200V class is based on 220V and that of a 400V class is based on 440V. The current rating is based on CT current.

*3) The output of rated current is limited according to the setting of the carrier frequency (CON-04).

*4) You can set the frequency at up to 300Hz by selecting 3, 4 Sensorless-1, Sensorless-2 as the control mode (DRV-09 Control Mode).

*5) The maximum output voltage does not go over the supplied power voltage. You can select the output voltage as you want below the supplied power voltage.

■ Control

Control Method	V/F control, V/F PG, slip compensation, sensorless vector control, vector control
Frequency Setting Resolution	Digital command: 0.01Hz Analog command: 0.06Hz (maximum frequency: 60Hz)
Frequency Tolerance	Digital command operation: 0.01% of the maximum frequency Analog command operation: 0.1% of the maximum frequency
V/F Pattern	Linear, double reduction, user V/F
Overload Capacity	CT current rating :150% for 1 minute, 200% for 22 seconds, VT current rating :110% for 1 minute
Torque Boost	Manual torque boost, automatic torque boost

Specifications

Specifications

Operating Method		Selectable among keypad/terminal block/communication operation	
Frequency Setting		Analog: 0 ~ 10[V], -10 ~ 10[V], 0 ~ 20[mA] Digital: keypad	
Operating Function		PID control, up-down operation, 3-wire operation, DC brake, frequency limit, frequency jump, second function, slip compensation, reverse rotation prevention, auto restart, inverter by-pass, auto tune flying start, energy buffering, power braking, flux braking, leakage current reduction, MMC, easy start	
Input	Multi-function terminal (8 points) P1 ~ P81 ^{*1)}	NPN / PNP selectable	
		Function: forward operation; reverse operation; reset; external trip; emergency stop; jog operation; sequential frequency-high; medium and low; multi-level acceleration and deceleration-high; medium and low; D.C. control during stop; selection of a second motor; frequency increase; frequency decrease; 3-wire operation; change to general operation during PID operation; main body operation during option operation; analog command frequency fixation; acceleration and deceleration stop selectable	
Output	Multi-function open collector terminal	Inverter fault output	Below DC 24V 50mA
	Multi-function relay terminal		Below (N.O., N.C.) AC250V 1A, Below DC 30V 1A
	Analog output	0 ~ 10 Vdc (below 10mA): selectable from frequency, current, voltage, direct current voltage	

^{*1)} The Functions for Multi-function terminal available according to IN-65~72 parameter setting of IN Group.

Protective Functions

Trip	Over voltage, low voltage, over current, over current detection, inverter overheat, motor thermal protection, phase loss protection, overload protection, communication error, frequency command loss, hardware failure, cooling fan failure, pre-PID failure, no motor trip, external brake trip. etc
Alarm	Stall prevention, overload, diminished load, encoder error, fan failure, keypad command loss, speed command loss.
Instantaneous Interruption ^{*2)}	Below CT class 15 msec (VT class 8 msec): operation continues (within rated input voltage, rated output) Over CT class 15 msec (VT class 8 msec): automatic restart

^{*2)} Operation at the CT (Heavy Duty) current rating

Structure and Use Environment

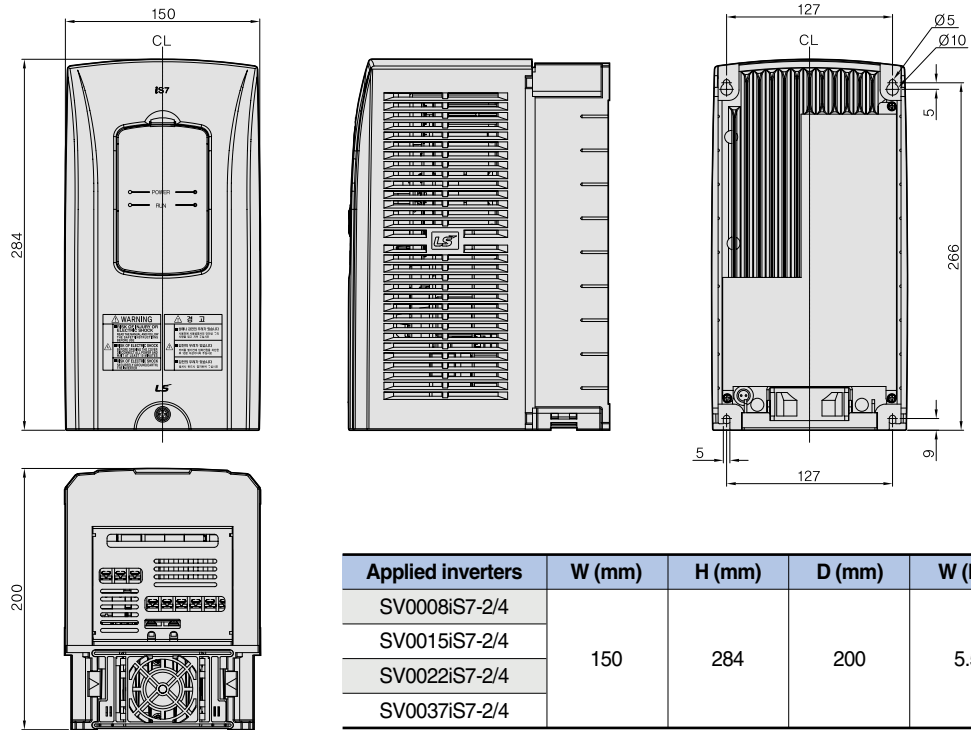
Cooling Method	Forced air blast cooling: 0.75 ~ 15kW (200/400V class), 22kW (400V class) Inhalation cooling: 22 ~ 75kW (200V class), 30 ~ 160kW (400V class)
Protection Structure	Below 75kW: Open Type(IP21), UL enclosed type 1(Option) ^{*3)} 30 ~ 75kW 200V, Above 90kW: Open type(IP00) The others (Below 22kW): Enclosed IP54 type, UL enclosed type 12
Surrounding Temperature	CT (Heavy Duty) load: -10 ~ 50°C, (14 ~ 122°F) without ice or frost VT (Normal Duty) load: -10~ 40°C (14 ~ 122°F) without ice or frost (It is recommended that you use less than 80% load when you use VT load at 50°C (122°F)) IP54 product: -10~40°C (14~122°F) without ice or frost
Preservation Temperature	-20 ~ 65°C (-4 ~ 149°F)
Surrounding Humidity	Below 90% RH of relative humidity (with no dew formation)
Altitude, Vibration	Below 1,000m (3280 ft), below 5.9m/sec 2 (19.36 ft/sec 2, 0.6G)
Environment	There should be no corrosive gas, flammable gas, oil mist or dust. Pollution Degree 2 Environment

^{*3)} UL Enclosed type 1 with conduit box installed



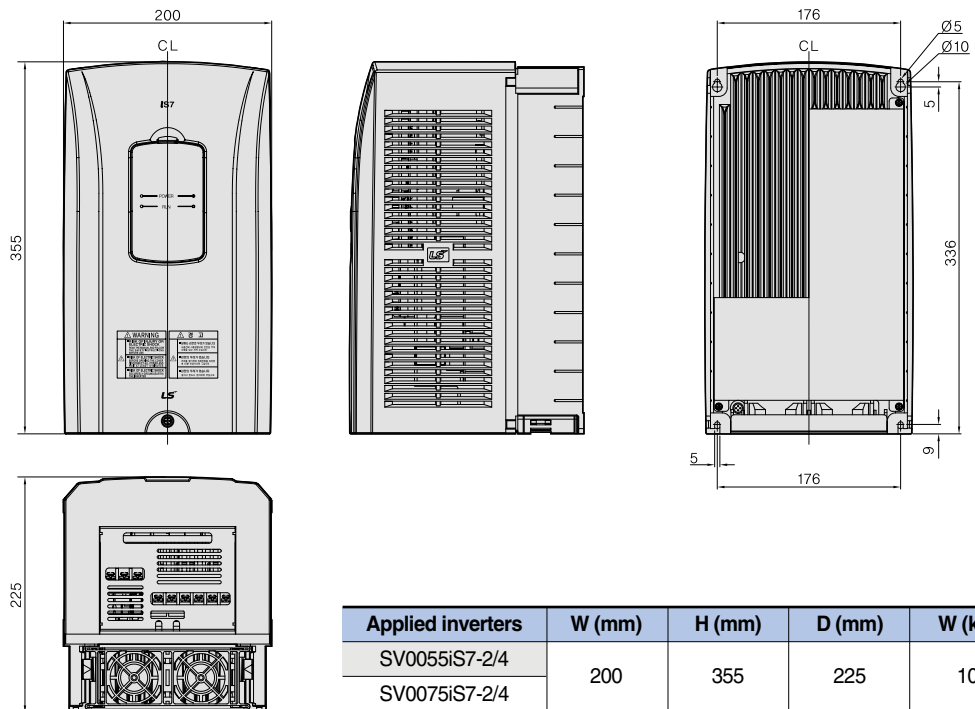
Dimensions

■ SV0008 ~ 0037iS7 (200V/400V)



* The weight above represents the total weight including EMC filter and DCL.

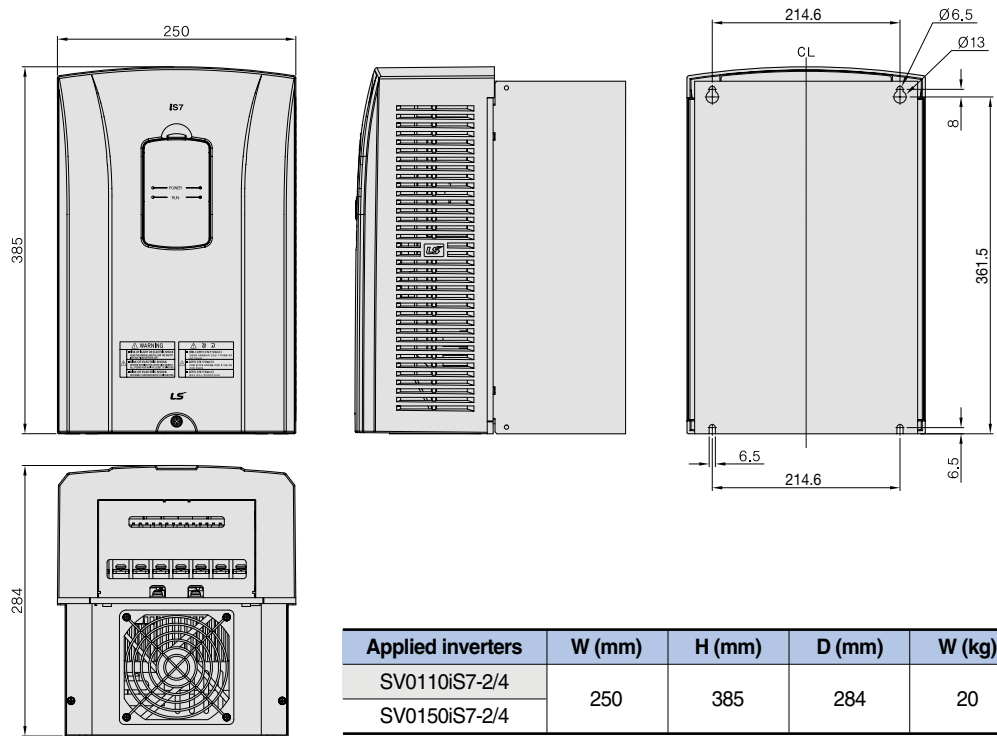
■ SV0055 ~ 0075iS7 (200V/400V)



* The weight above represents the total weight including EMC filter and DCL.

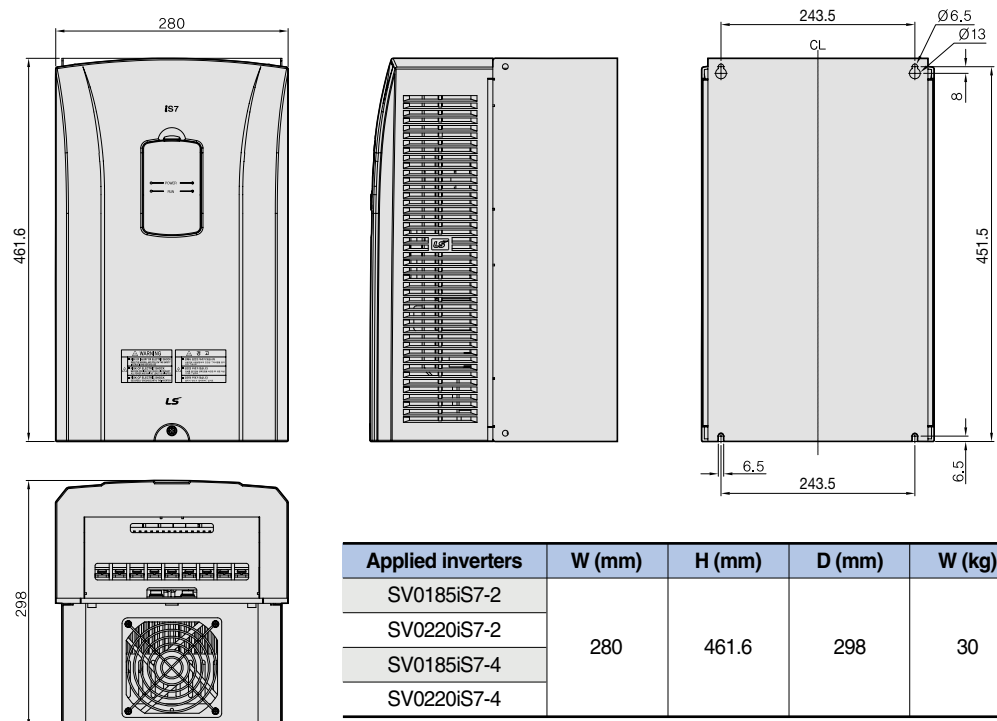
Dimensions

SV0110 ~ 0150iS7 (200V/400V)



* The weight above represents the total weight including EMC filter and DCL.

SV0185 ~ 0220iS7 (200V/400V)

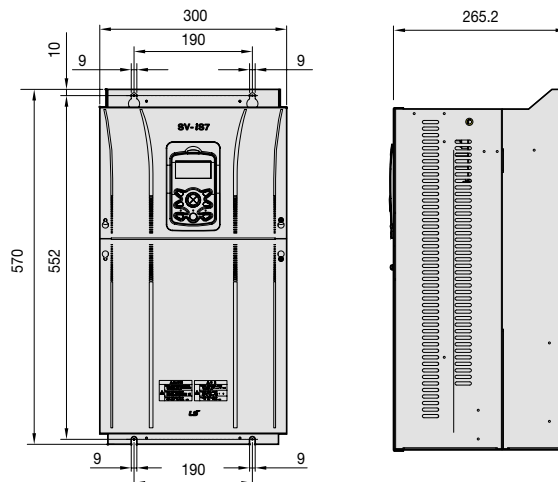


* The weight above represents the total weight including EMC filter and DCL.

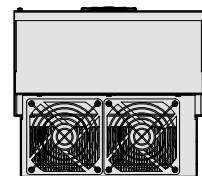
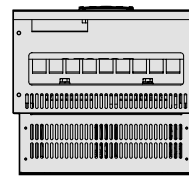


Dimensions

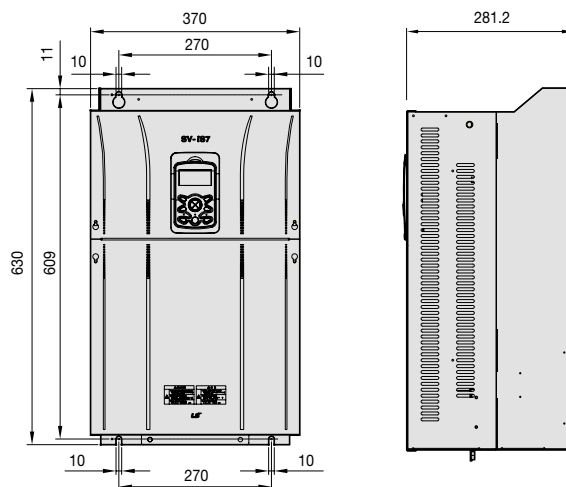
■ SV0300iS7 (200V)



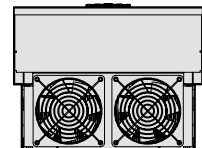
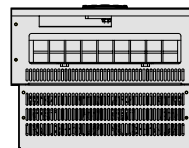
Applied inverters	W (mm)	H (mm)	D (mm)	W (kg)
SV0300iS7-2	300	570	265.2	29.5



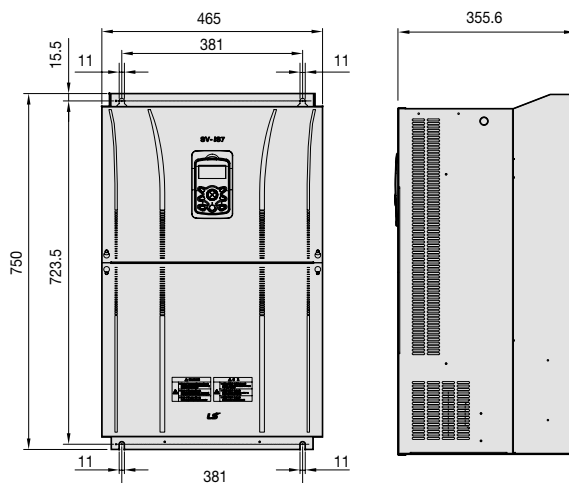
■ SV0370 ~ 0450iS7 (200V)



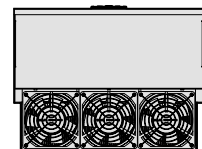
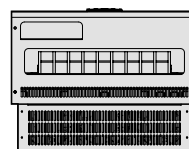
Applied inverters	W (mm)	H (mm)	D (mm)	W (kg)
SV0370iS7-2	370	630	281.2	44
SV0450iS7-2				



■ SV0550 ~ 0750iS7 (200V)

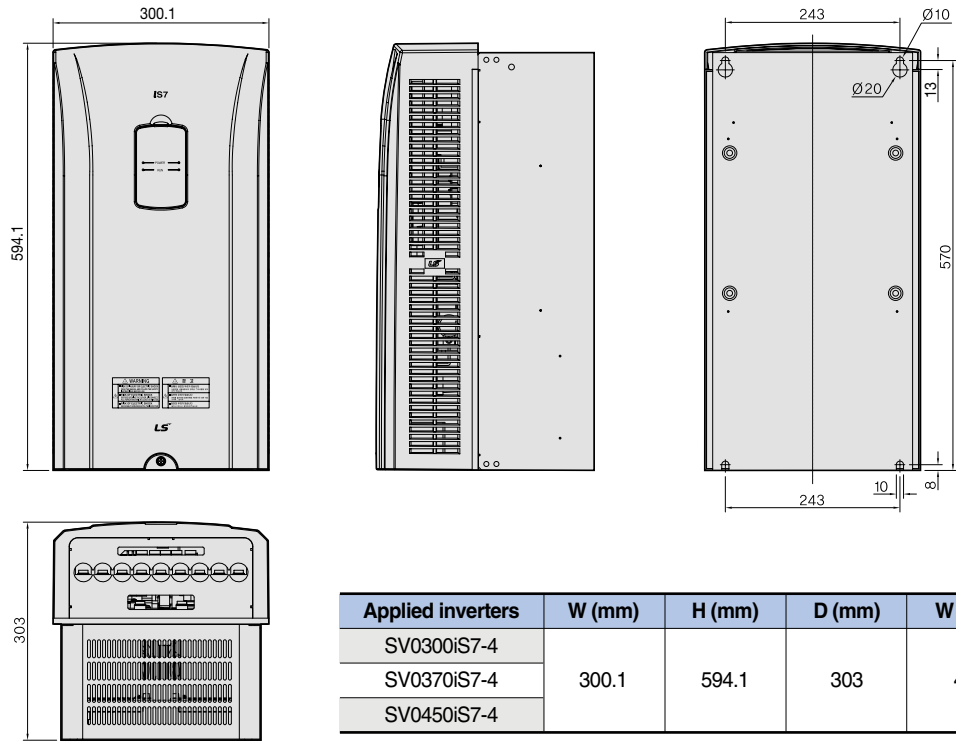


Applied inverters	W (mm)	H (mm)	D (mm)	W (kg)
SV0550iS7-2	465	750	355.6	72.5
SV0750iS7-2				



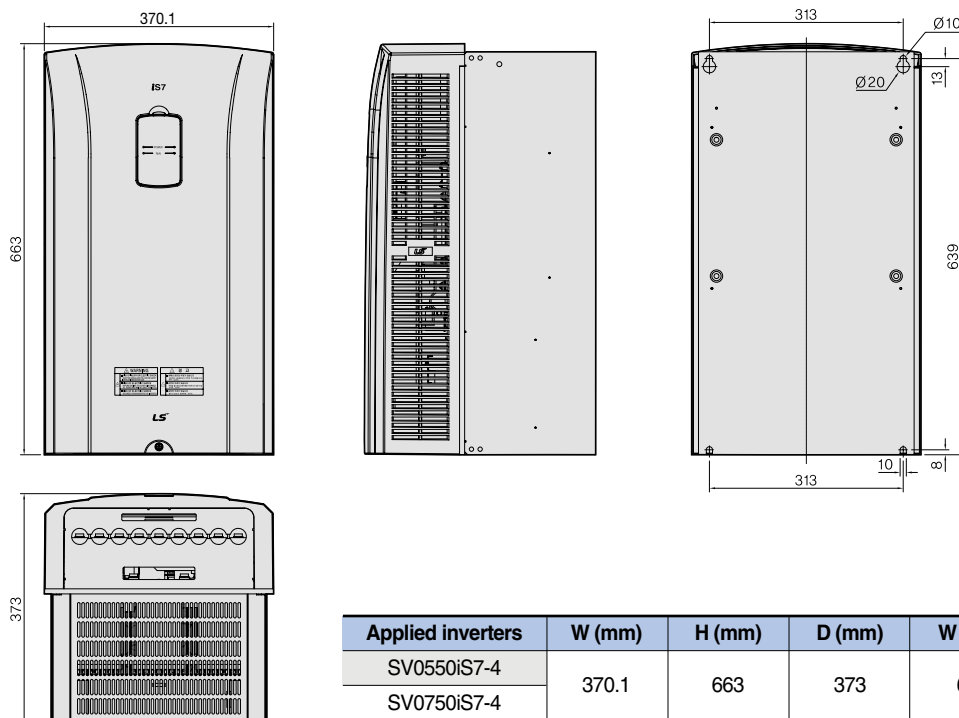
Dimensions

■ SV0300 ~ 0450iS7 (400V)



* The weight above represents the total weight including EMC filter and DCL.

■ SV0550 ~ 0750iS7 (400V)

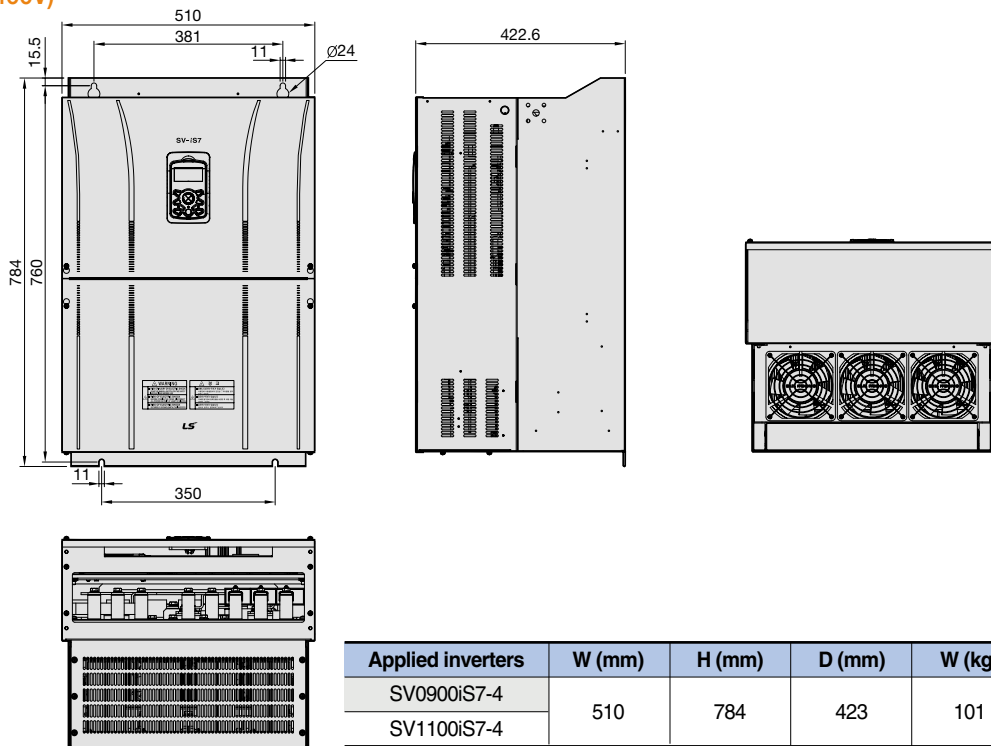


* The weight above represents the total weight including EMC filter and DCL.



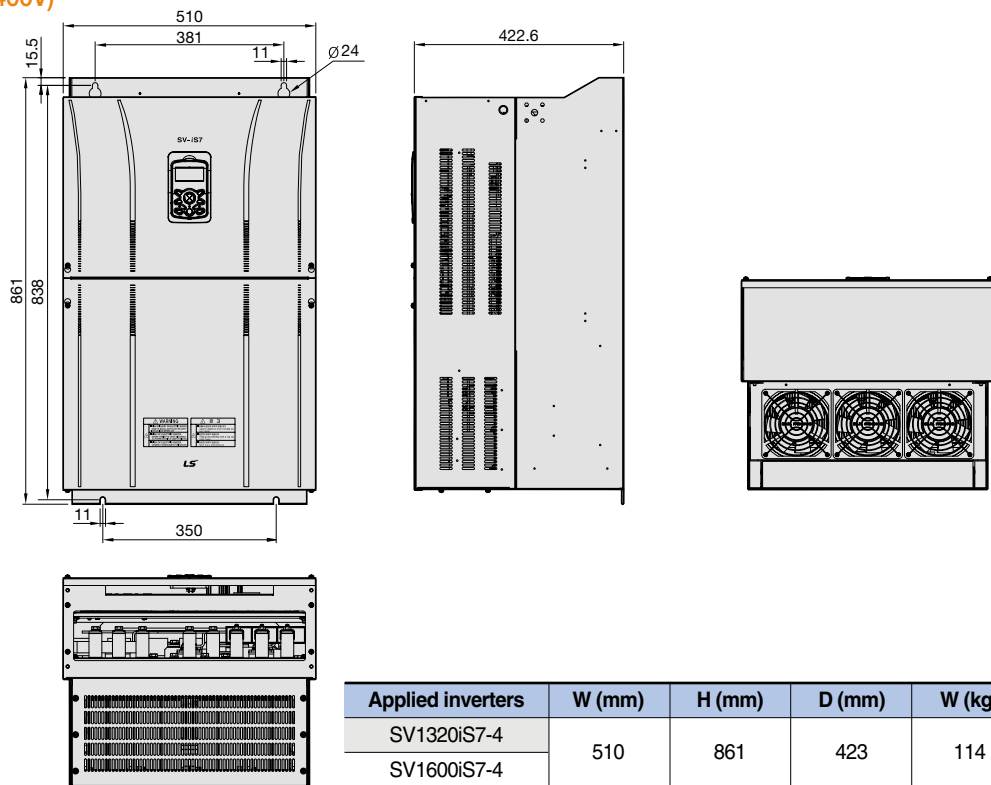
Dimensions

■ SV0900 ~ 1100iS7 (400V)



* The weight above represents the total weight including EMC filter and DCL.

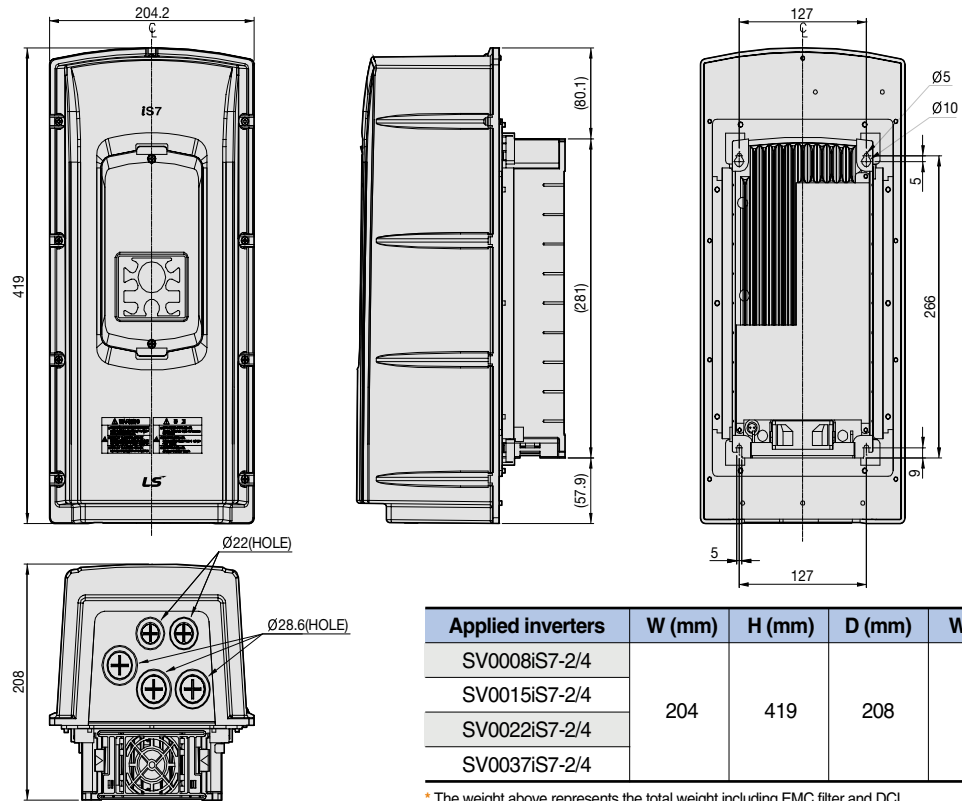
■ SV1320 ~ 1600iS7 (400V)



* The weight above represents the total weight including EMC filter and DCL.

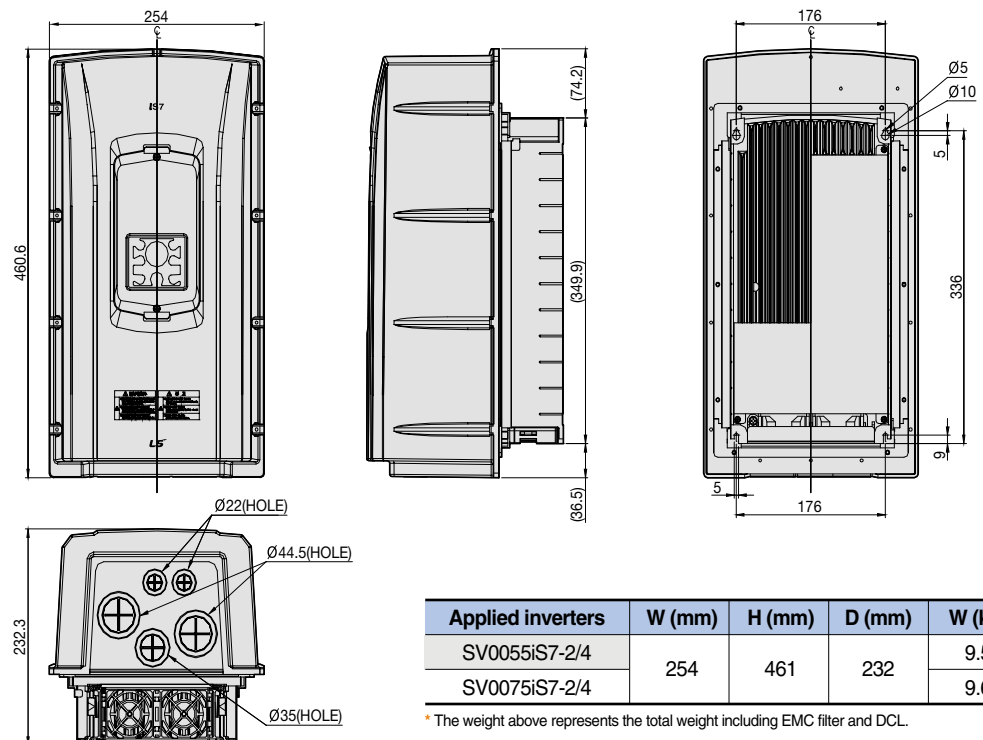
Dimensions

SV0008 ~ 0037iS7 (200V/400V)



* The weight above represents the total weight including EMC filter and DCL.

SV0055 ~ 0075iS7 (200V/400V)

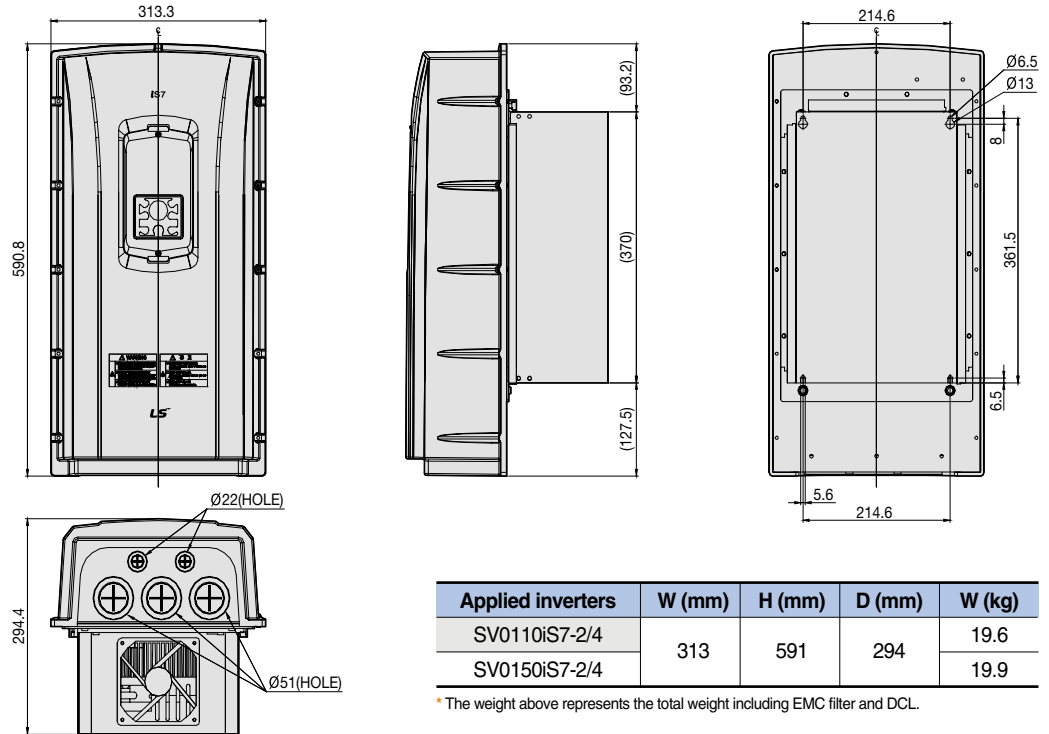


* The weight above represents the total weight including EMC filter and DCL.

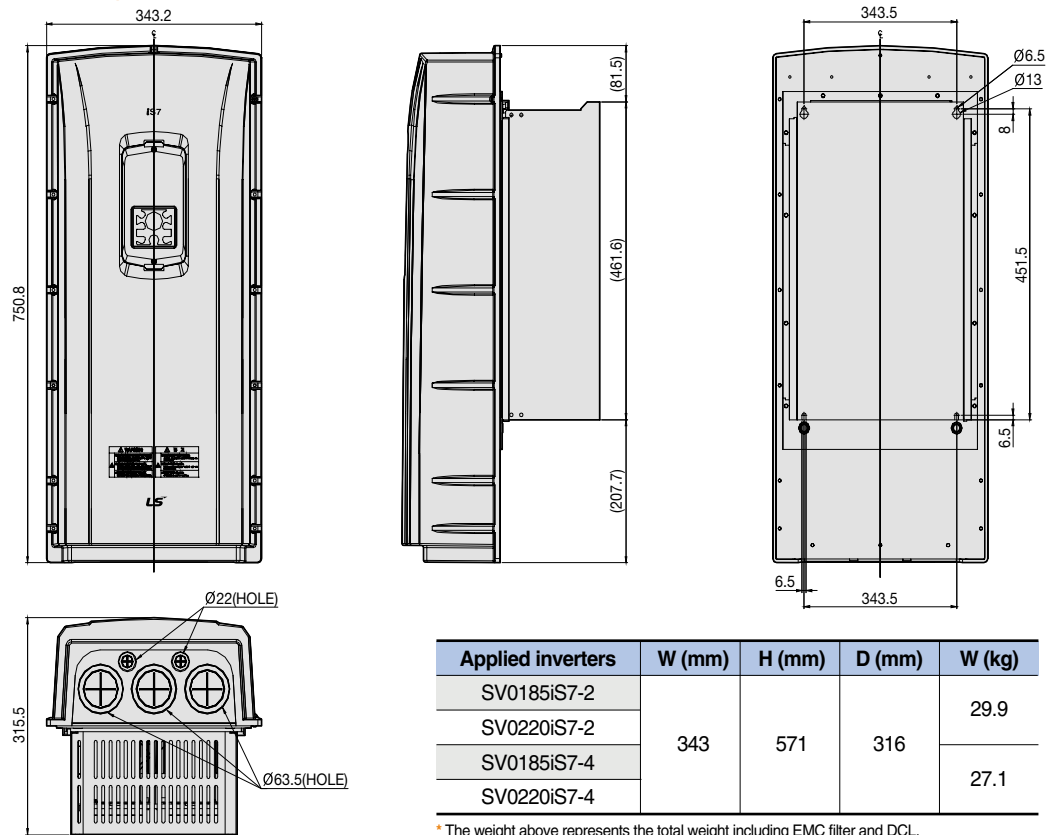


Dimensions

■ SV0110 ~ 0150iS7 (200V/400V)



■ SV0185 ~ 0220iS7 (200V/400V)



Memo



Memo

Memo

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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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