

NEW STANDARD AC DRIVE

S100

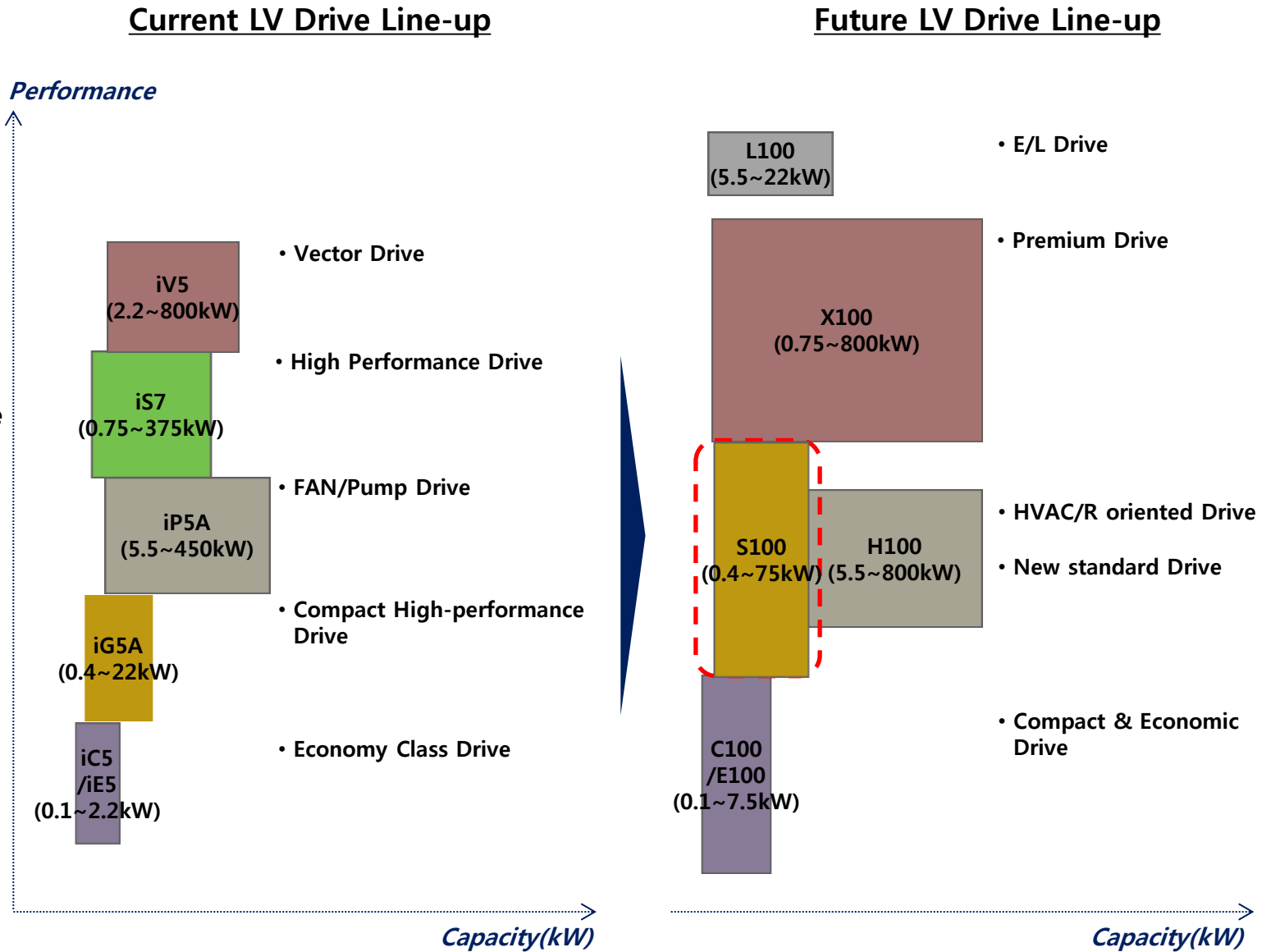


S100

LV Drive Line-up

1] LV Drive Line-up

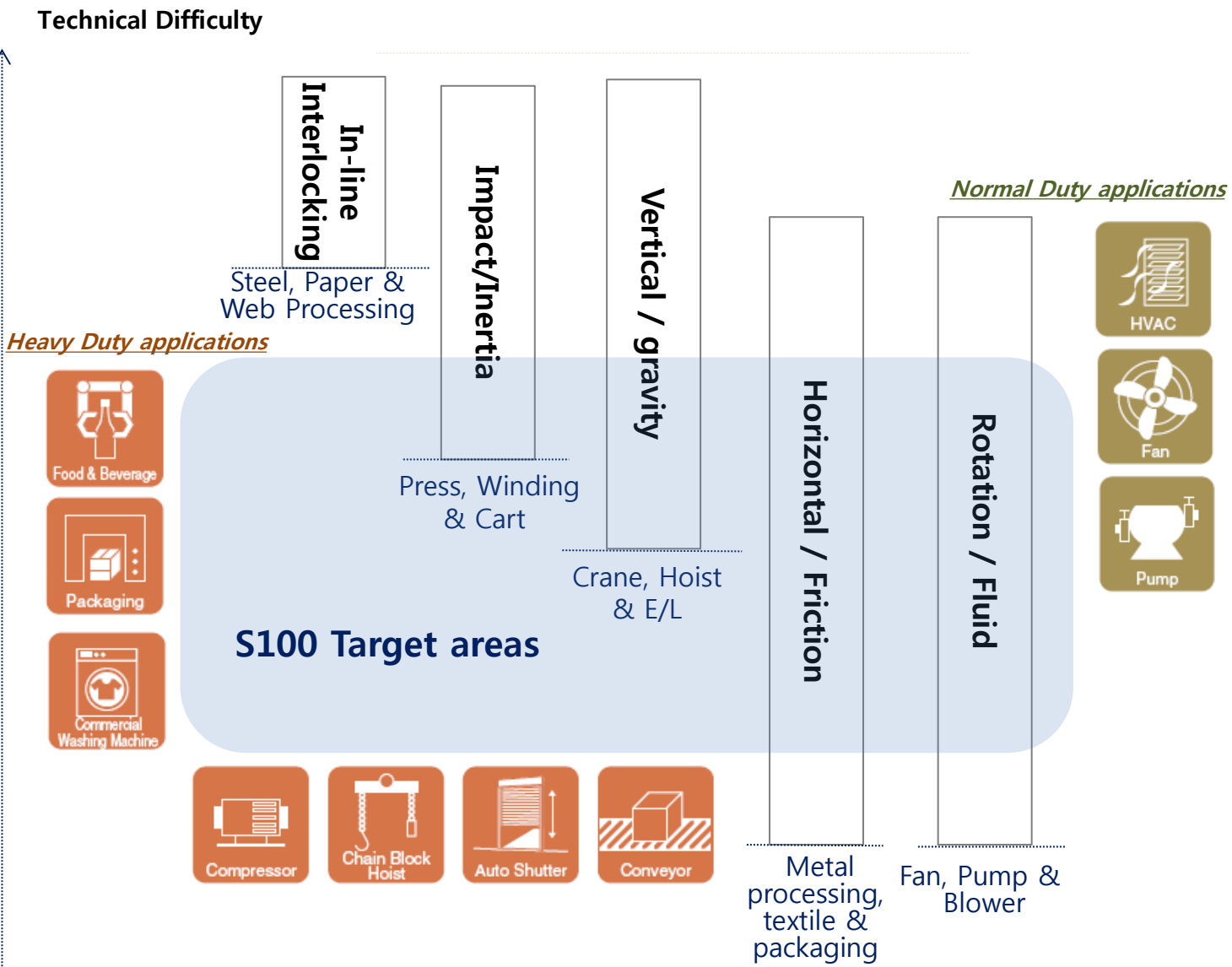
- 2] Target application
- 3] Fame design
- 4] General spec.
- 5] Features
- 6] Option
- 7] Comparison
- 8] Launching schedule



S100

Target Application

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Frame design

Standard IP20

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Optional IP66/NEMA4X

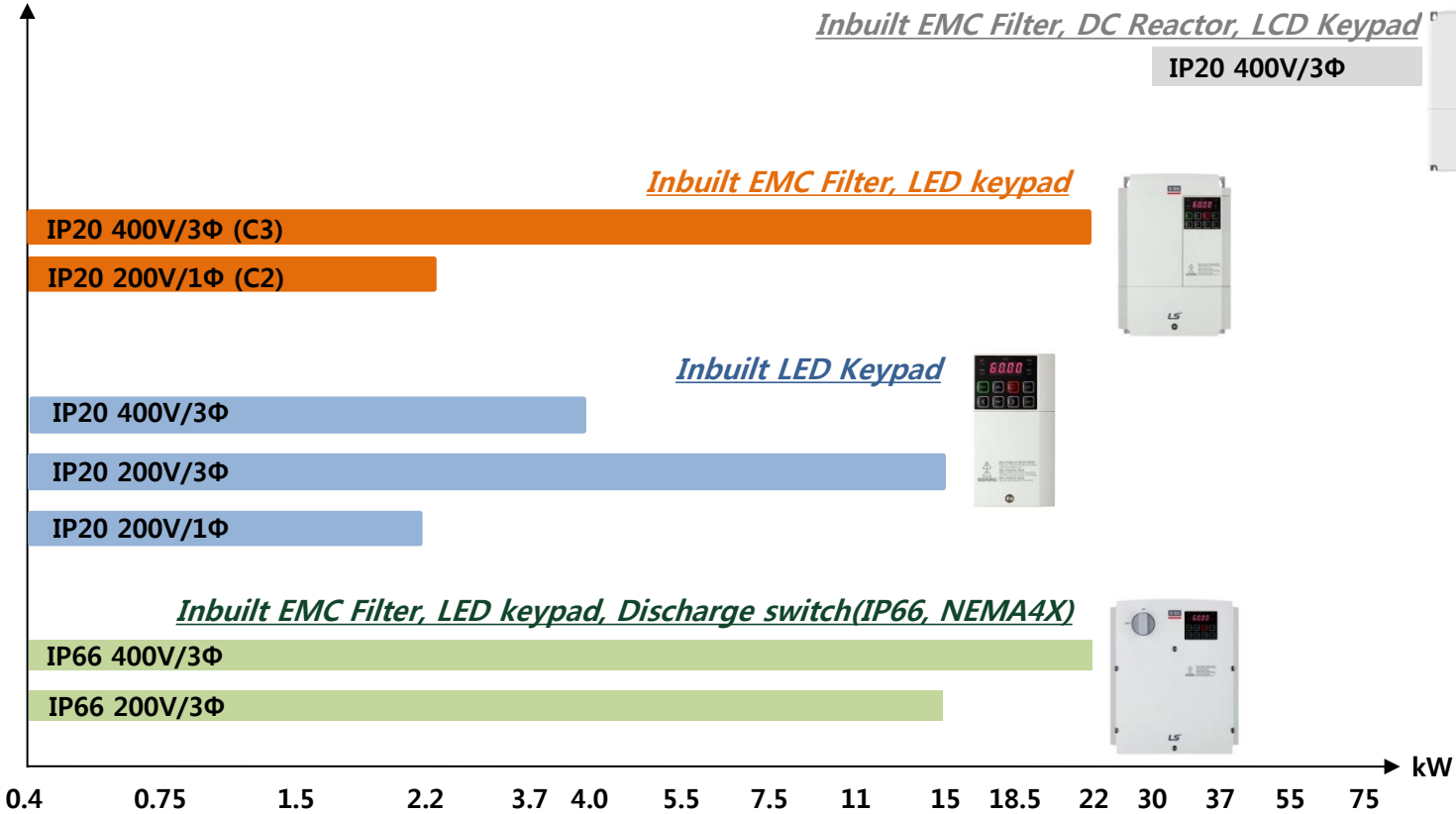


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General specifications

- **Drive capacity**
 - 200V, Single-phase, 0.4~2.2kW(2.5~11A, HD)
 - 200V, Three-phase, 0.4~15kW(2~55.9A, HD)
 - 400V, Three-phase, 0.4~75kW(1.8~152A, HD)
- **Overload capacity (Dual rating)**
 - 150% for 60sec. (Heavy Duty)
 - 120% for 60sec. (Normal Duty)
- **Input voltage range**
 - 200~240V Single/Three-phase (-15%/+10%)
 - 380~480V Three-phase (-15%/+10%)
- **Control meethod**
 - V/f, Sensorless vector, PM Sensorless(customized)
- **Output frequency**
 - 0~400Hz (Sensorless: 0~120Hz)
- **Carrier frequency**
 - Heavy Duty: 1~15kHz / Normal Duty: 1~5kHz
- **Protection degree**
 - Standard: IP20, Optional: NEMA1/NEMA4X(IP66)
- **Global Certificated**
 - CE, UL, cUL, RoHS



S100

■ General specifications

Different specifications according to standard S100's capacity

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Drive capacity(kW)	0.4~4kW		5.5~22KW		30~75kW	
Design						
Control terminal I/O	Standard I/O: 23pins(5mm pitch, three-stage) 2 nd I/O: 27pins(3.5mm pitch, three-stage)				34pins(5mm pitch, two-stage)	
Keypad	Inbuilt 7 segment keypad as standard (Graphic LCD keypad as external option)				Inbuilt Graphic LCD keypad as standard	
Inbuilt comm.	Inbuilt in RS485(Modbus RTU / LS Bus) as standard (Max. speed 115kbps)					
Optional Comm.	CANopen, Profibus DP, Ethernet(Modbus TCP / Ethernet I/P)					
EMC Filter	Inbuilt EMC filter as option: 200V/1Φ(C2) 400V/3Φ(C3)		Inbuilt EMC filter as standard: 400V/3Φ(C3)		Inbuilt EMC filter as option: 400V/3Φ(C3)	
DC Reactor	N/A				Inbuilt DC reactor as standard	
Dynamic Braking Transistor	Inbuilt Dynamic braking transistor as standard				N/A	
Side by Side (Zero stack)	Side by Side (3mm)				N/A (50mm)	
Communication option installation	External option installation type				Internal option installation type	
Top ventilation cover	Open		Close			

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General specifications

User friendly Keypad

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7 segment (0.4~22kW)



Display	• 7-Segments, 4 Digit
LED	• 4
Key	<ul style="list-style-type: none"> • 8 key - 4 directions - Run - Stop / Reset - Enter (SET) - ESC*

Graphic LCD (30~75kW)



Display	• Graphic LCD (128x64 Pixels)
LED	• 3
Key	<ul style="list-style-type: none"> • 11 key - 4 directions - Mode - Stop / Reset - FWD / REV - ESC / MULTI* - PROG ENT

*'ESC' & 'MULTI' key: This key is used for Multi-Functions and one touch allows to access to the principal parameters such as Return to initial parameter position, Local/Remote and Keypad Jog etc.

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General specifications

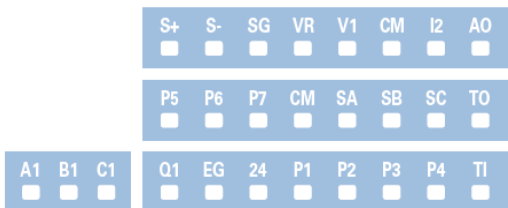
Control terminal I/O

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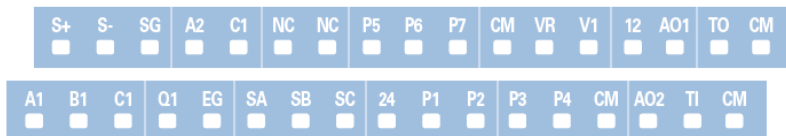
Standard I/O (0.4~22kW)



Multi I/O (0.4~22kW)



Standard I/O (30~75kW)

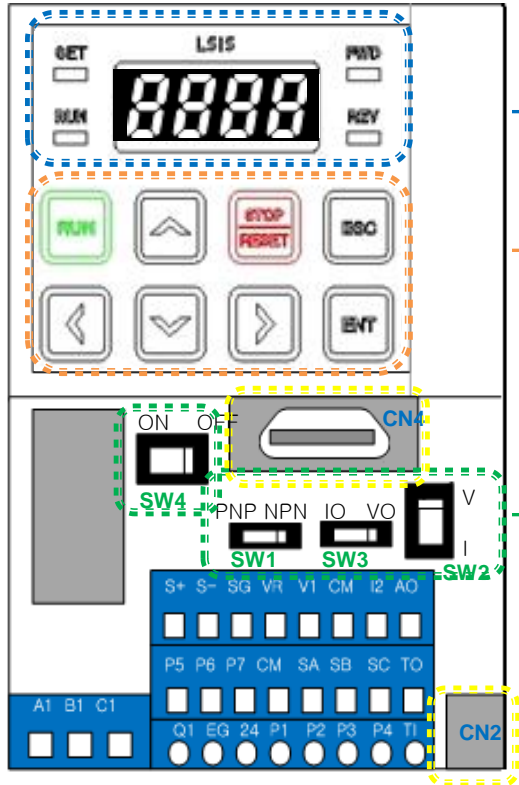


	Standard I/O (0.4~22kW)	Multi I/O (0.4~22kW)	Standard I/O (30~75kW)
No. of Pins	23 pins	27 pins	34 pins
Relay output	A1,B1,C1	A1,B1,C1	A1,B1,C1 A2, C2
24V output	24	24	24
Analog input voltage (+12V)	VR	VR	VR
Analog voltage input	V1	V1	V1
Analog voltage/Current input	I2	I2	I2
Analog voltage/Current output	AO	AO	AO1
Analog voltage output	-	-	AO2
RS485 signal / Ground	S+,S- / SG	S+,S- / SG	S+,S- / SG
Safety input	SA,SB,SC	SA,SB,SC	SA,SB,SC
I/O Ground(Except for comm.)	CM	CM	CM
Multifunctional TR output	Q1,EG	Q1,EG	Q1,EG
Multifunctional digital input (PNP/NPN)	P1~P5	P1~P7	P1~P7
Pulse train input(0~32kHz)	P5(Common)	TI	TI
Pulse train output(0~32kHz)	Q1(Common)	TO	TO
Terminal pitch	5mm	3.5mm	5mm

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General specifications
Keypad & Switches

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FWD	Turn on in FWD operation, Flash in Acc./Dec.	Flash in trip mode
REV	Turn on in REV operation, Flash in Acc./Dec.	
RUN	Turn on in operation	
SET	Turn on when user setting, Flash when ESC is used as Multi-function Key	
7-Segment	Status & Parameter Information	

RUN	Run command	
STOP/RESET	STOP : Stop command, RESET : Reset command	
▲	Up	Moving code / Increase parameter value
▼	Down	Moving code / Decrease parameter value
◀	Left	Moving group / Moving cursor to left
▶	Right	Moving group / Moving cursor to right
ENT	Enter	Changing parameter / Saving parameter
ESC	Multi-key	JOG / Remote-Local / Cancel

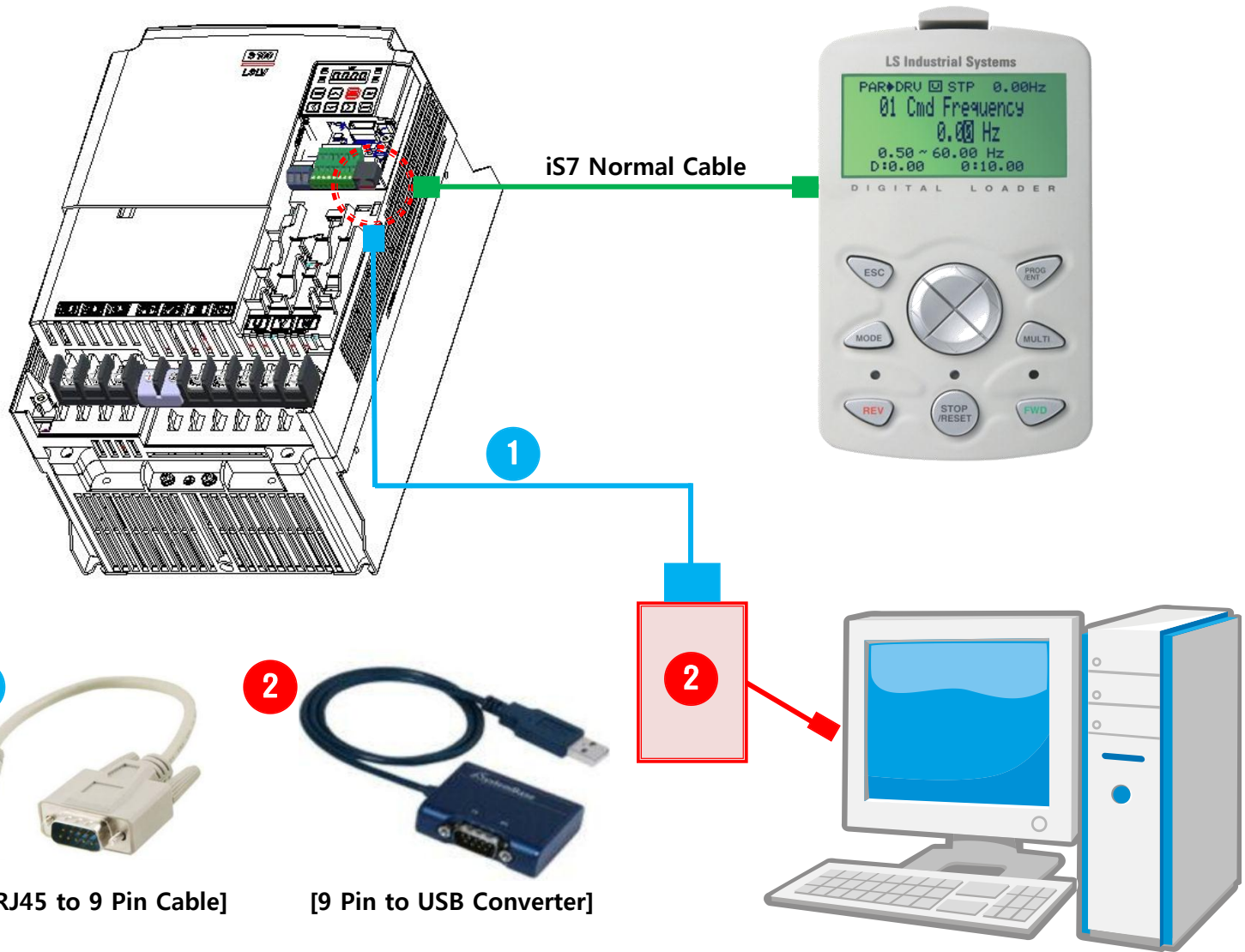
	Switch Position	LEFT	RIGHT	UP	DOWN
SW1	NPN / PNP	PNP	NPN		
SW2	Analog Input Select			Voltage	Current
SW3	Analog Output Select	Current	Voltage		
SW4	Terminal Resistor	ON	OFF		

CN2	Graphic LCD Port	Port for connecting iS7 Keypad
CN4	Field bus Port	CANopen, Ethernet, Profibus-DP

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General specifications *RJ45 Port for Keypad & DriveView7*

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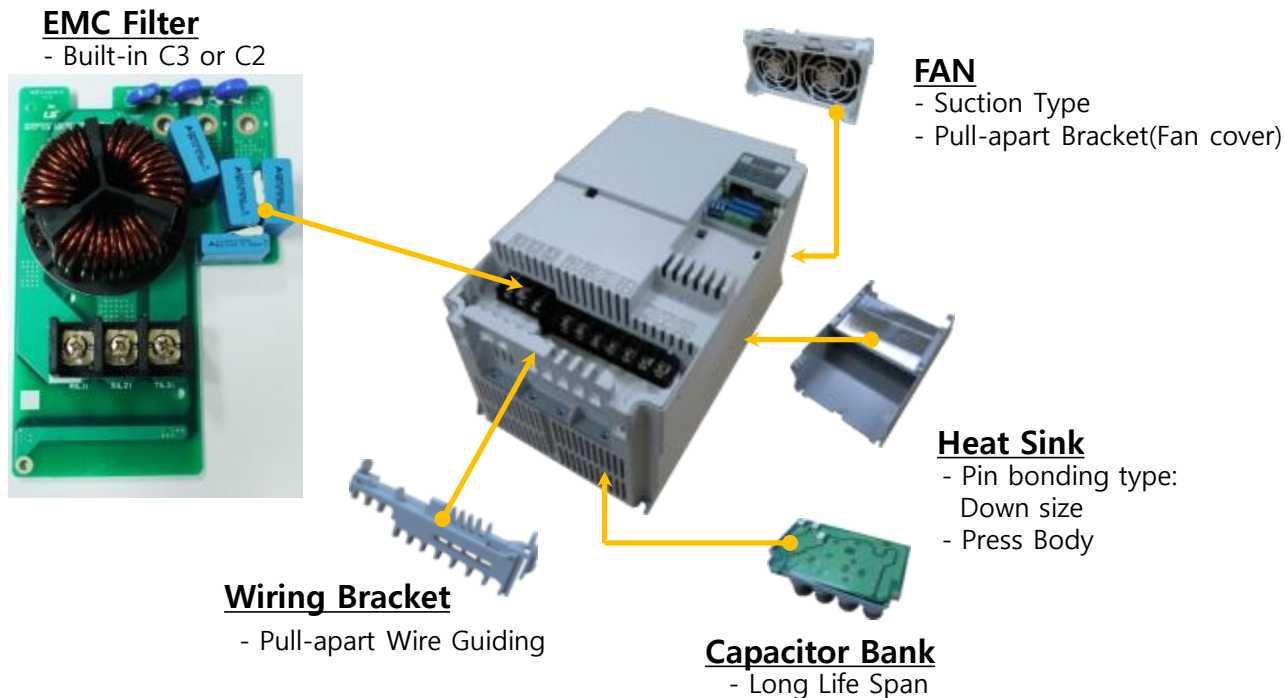
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General specifications

EMC Filter

EMC Filter which is compatible with EMC Directive (EN6180-3 2nd Environment Category C3) is available in S100 0.4~75kW three-phase 400V class. Category C2 is available also in S100 0.4~2.2kW single-phase 200V class.



DC Reactor

DC Reactor is inbuilt in S100 30~75kW as standard in order to improve Power Factor and reduce THD(Total Harmonic Distortion).

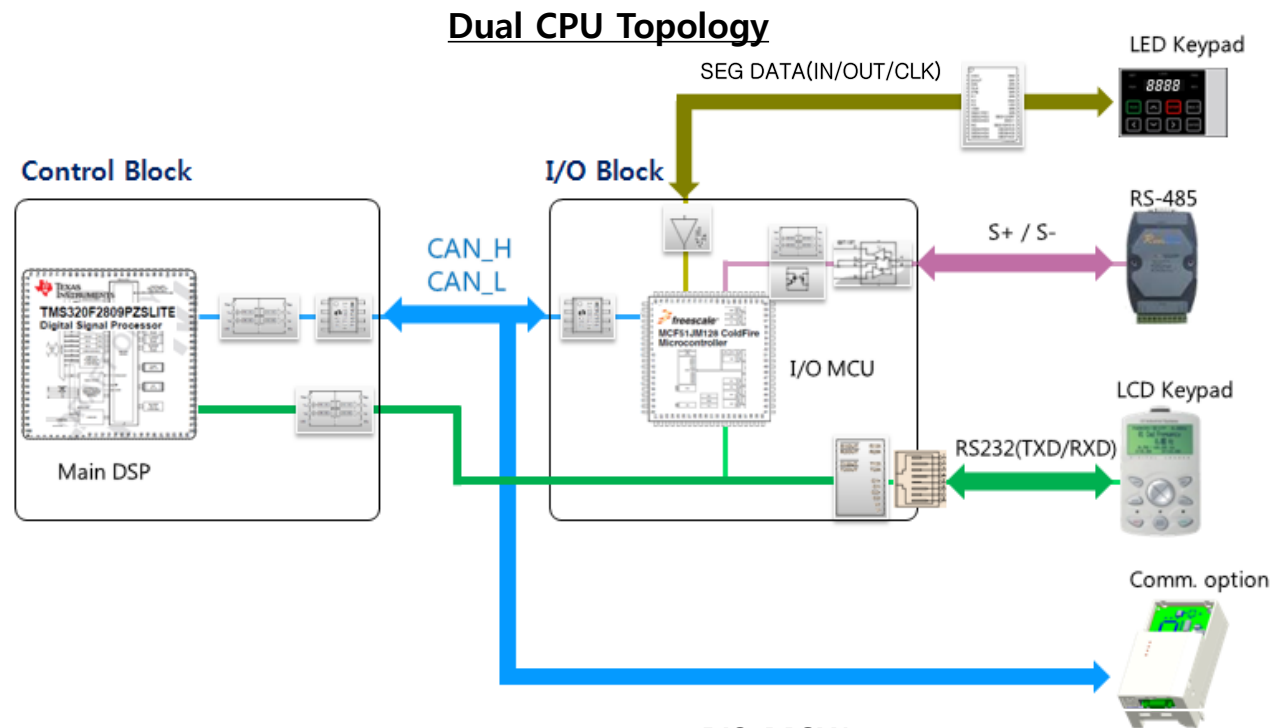
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■ Features (Performances)

Dual CPU Topology

Thanks to Dual CPU Topology, Scan cycle time for a motor control is faster than the previous generation. Also CAN communication used between Control and I/O block helps electromagnetic noise to reduce.



Main DSP*

Speed	60MIPS*
Memory	Flash: 256kByte RAM: 36kByte

I/O MCU*

System Clock	48Mhz
Memory	Flash: 32kByte RAM: 16kByte

• DSP: Digital Signal Processor
• MIPS: million Instructions Per Second

• MCU: Micro Controller Unit

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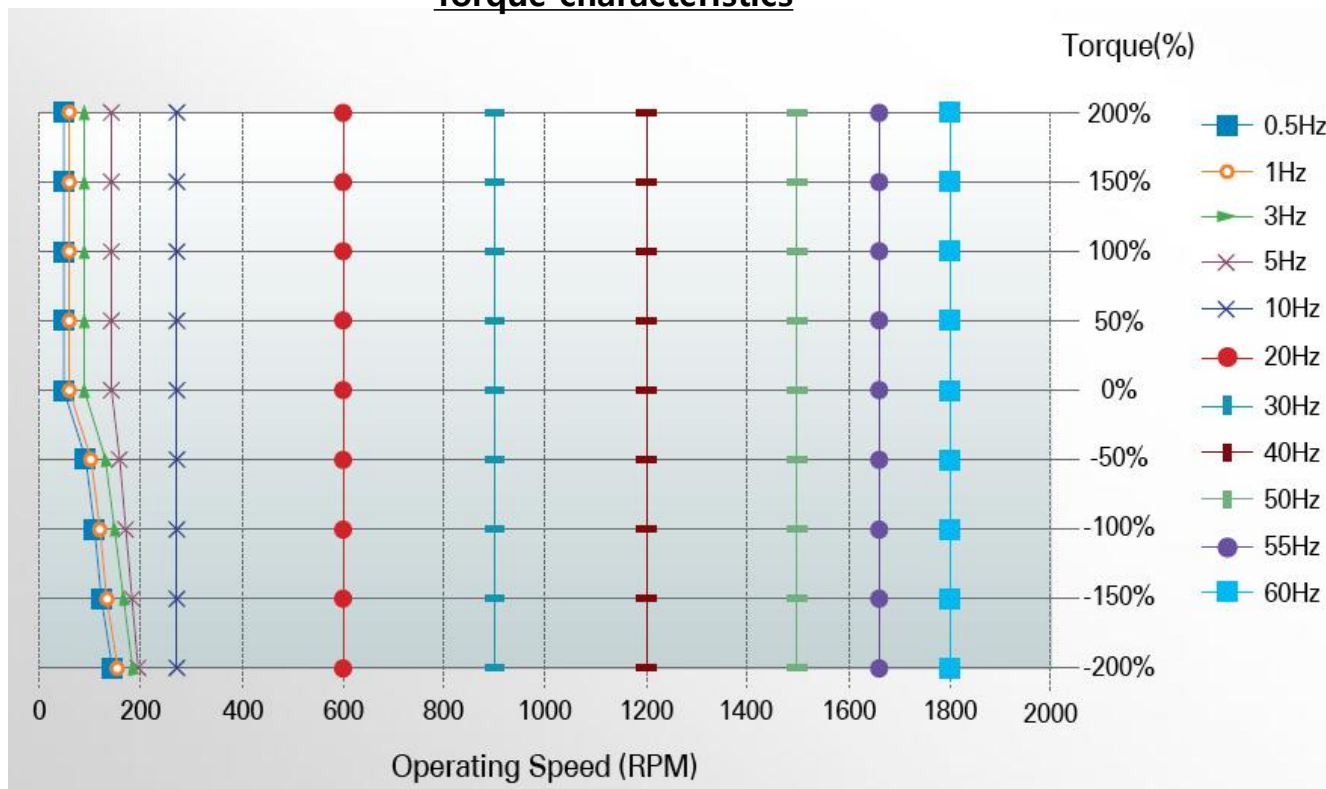
Features (Performances)

Enhanced torque control

S100 has impressive torque characteristics with current vector control which provides a powerful starting torque of 200% at 0.5Hz and precise torque limit operations. Both of standing and rotating Auto-tuning function save start-up time and assure high performance operation at the maximum efficiency.

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Torque characteristics



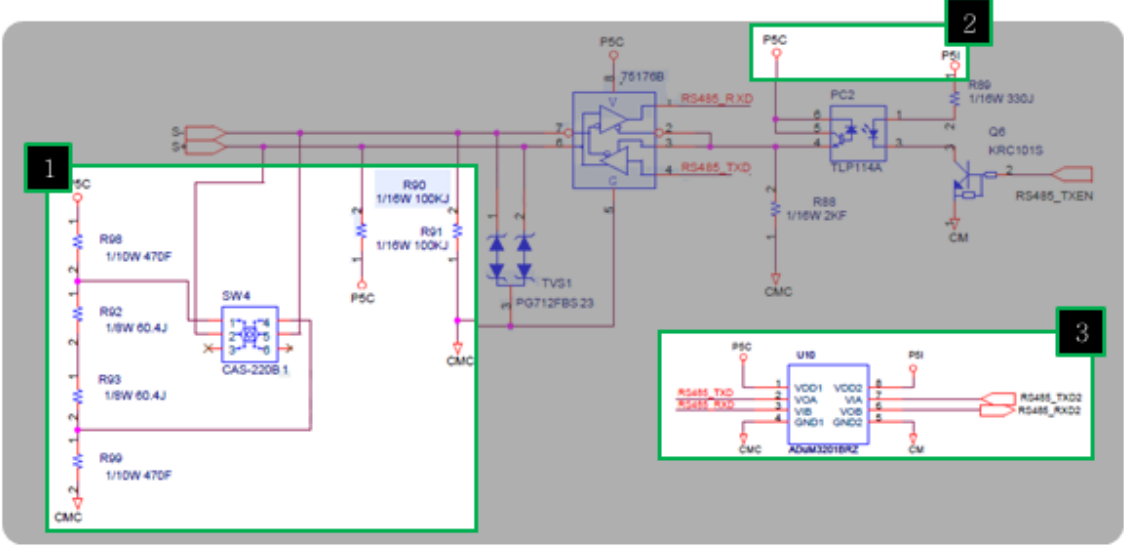
- Test drive: S100 7.5kW 400V class , heavy duty, at rotating Auto-tuning
- Test motor: Heigen induction motor 7.5kW, 3-phase, 4 poles,

- S100
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Features (Performances)

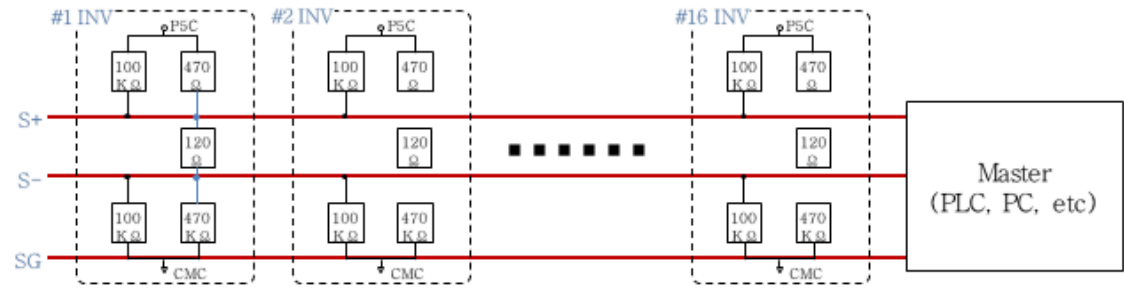
Enhanced RS485 communication

Inbuilt RS485 communication (Modbus RTU & LS Bus) is faster than the previous models (Max. speed 115kbps) and its reliability has be improved.



- 1 Stable communication signal levels
 - through improvement in the terminal resistor circuit even if several stations are communicated
- 2 Independent power source for RS485 communication
 - Not affected by electromagnetic noises from the drive or its surrounding environment
- 3 High communication speed
 - Approximately 6 times faster than previous model (IG5A: 19kbps → S100: 115kbps)

Effect of Terminal resistor



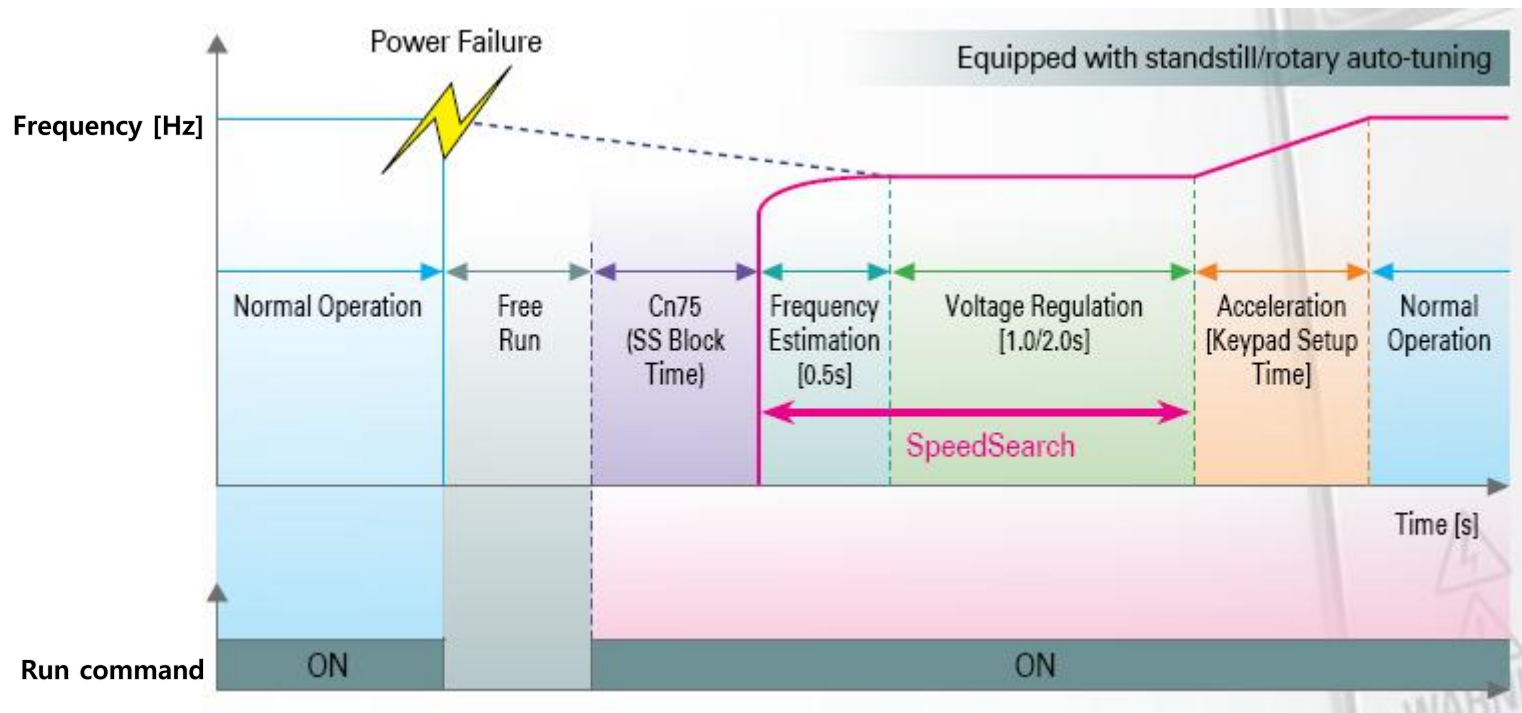
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Features (Performances)

Enhanced functions in case of power failure

Through improved algorithms such as Flying Start(Speed Search) and KEB(Power-Loss-Ride-Through), there might be no more trouble from power failure.



Flying start(Speed search) performs smooth restart by finding the coasting motor's speed

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Features (Space-saving Design)

World best compact size

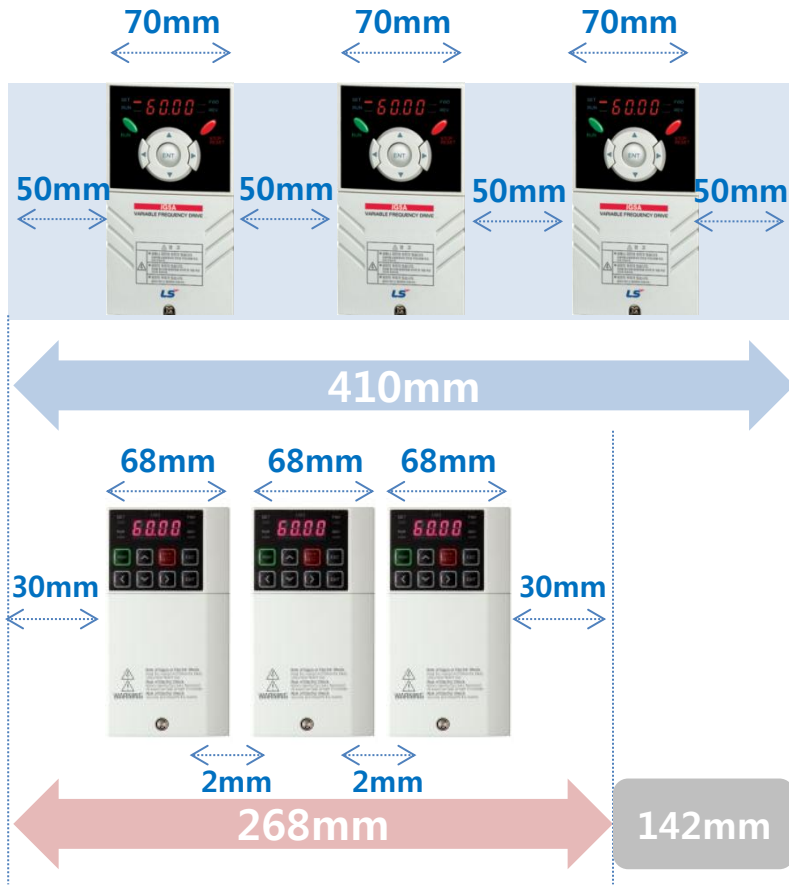


* Size comparison between S100 and previous model based on 11kW 400V class

Approximately 60% Smaller

Thanks to a state-of-the-art thermal simulation technology, LSIS creates the world smallest compact drive.

Side by Side installation (Zero stack)



S100 allows OEMs or panel makers to save a installation space in their panels.

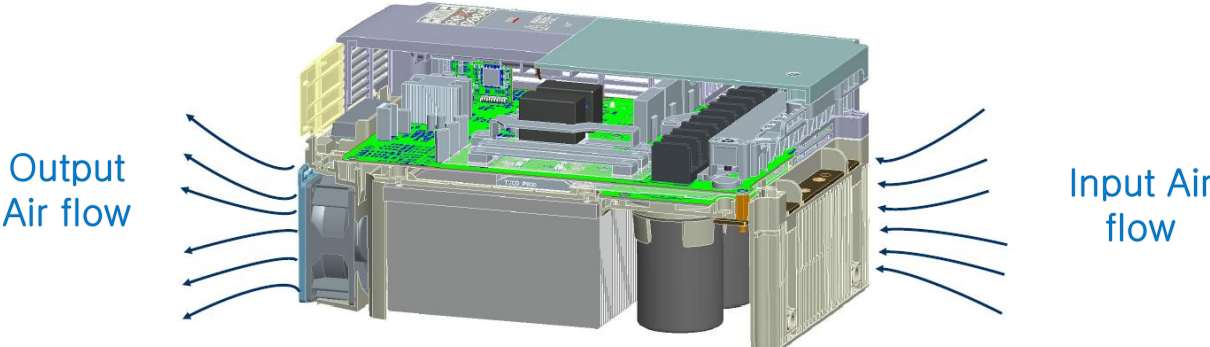
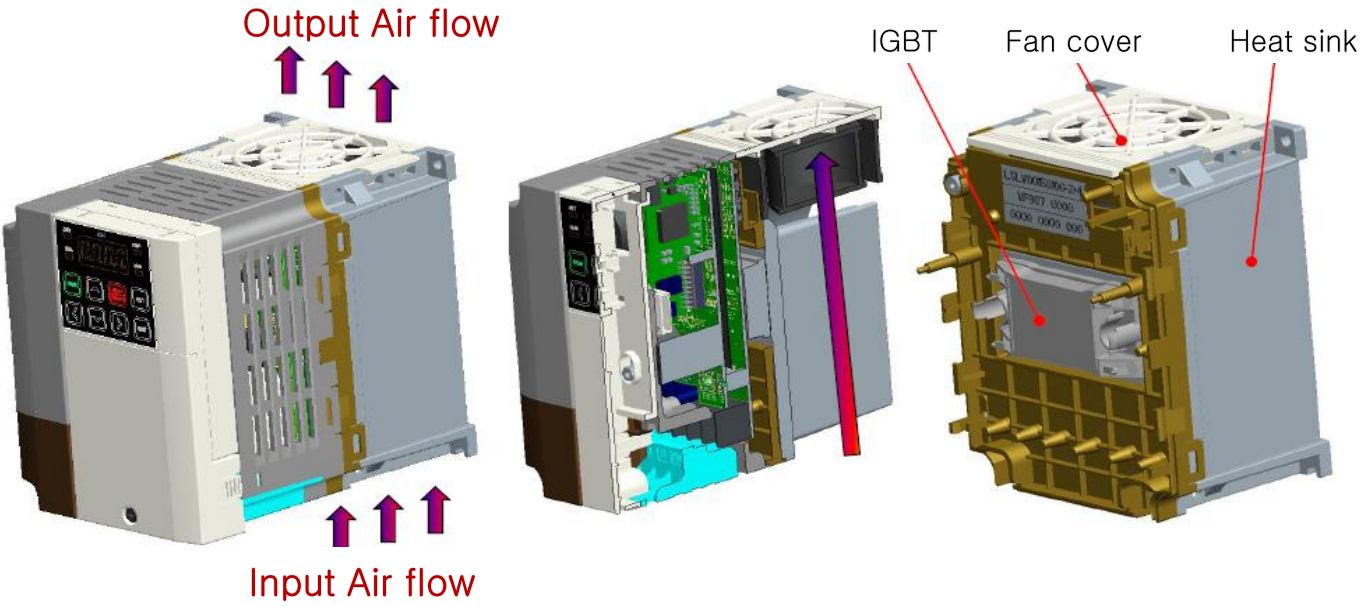
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■ Features (Reliability)

Enhanced cooling design

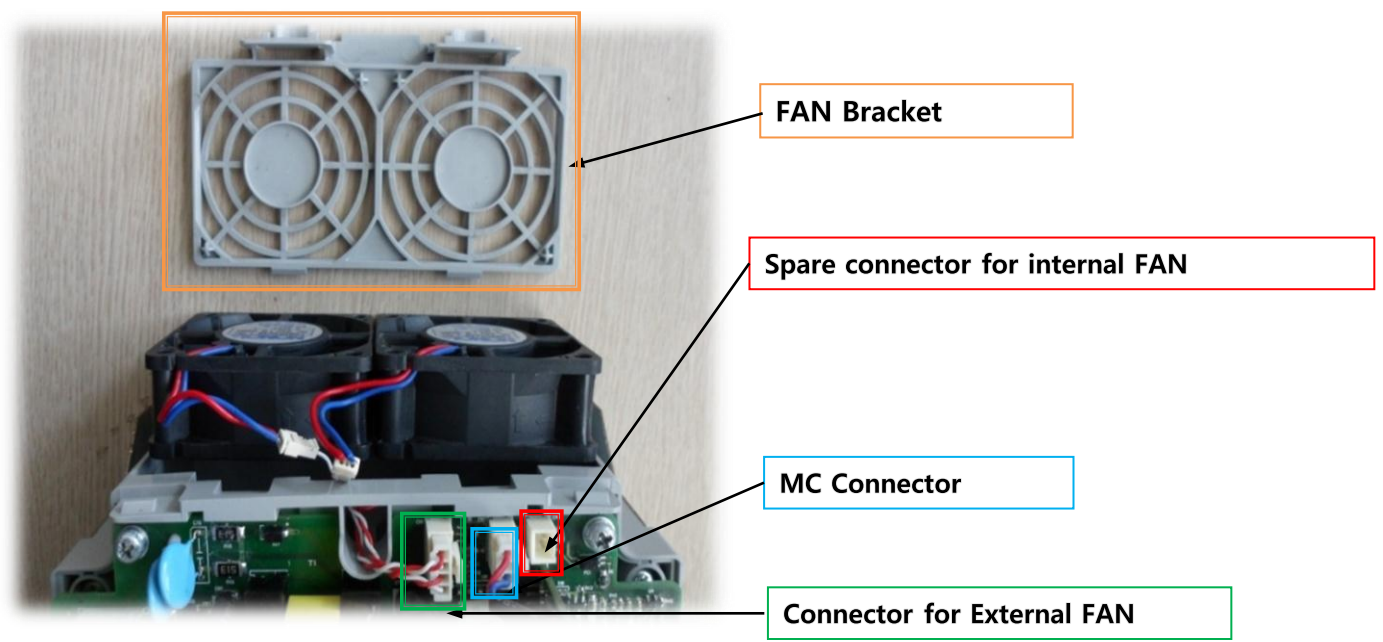
Suction structure for internal cooling system enhances their protection and improves the life of S100 in dusty working environment. This cooling structure prevents air from flowing externally to the internal PCBs.



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Features (Reliability)
Life-time Diagnosis


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Code	Display	Range	Unit	Default
PRT-86	Fan Time Perc	(Read Only)	%	0
PRT-87	Fan Exchange	0.0 ~ 100.0	%	90.0
PRT-88	Fan Time Rst	0 : No 1 : Yes	-	0 (No)
OUT-74	Relay 2	38 : Fan Exchange	-	14 : Run
CNF-74	Fan Time	(Read Only)	-	-

1) PRT-86 : Actual counted value of use (50000hrs = 100%)
 2) PRT-87 : Value to exchange the fan (Fan Diagnosis not activated when it is set to 0)
 3) PRT-88 : Initializing running time of the fan

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 **Features (Reliability)**
Life-time Diagnosis

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**[Description of the related parameters]**

- 1) PRT-82 : Percentage of test current
(100% = Rated current of INV CT)
- 2) PRT-83~85 are displayed when PRT-82 is not set to 0
- 3) PRT-83
 - a) CAP Diag 1 : Measuring initial value of Capacitance
 - b) CAP Diag 2 : Measuring current Capacitance based on the operation
 - c) CAP Init : Initializing the measured capacitance
- 4) PRT-84 : Initial capacitance
It is the Reference value for exchange
- 5) PRT-85 : Current Capacitance

Code	Display	Range	Unit	Default
PRT-82	CAP Diag Perc	0 / 10 ~100	%	0
PRT-83	CAP Diag	0 : None 1 : CAP Diag 1 2 : CAP Diag 2 3 : CAP Init	-	0 : None
PRT-84	CAP Level 1	0.0 / 50.0 ~ 95.0	%	-
PRT-85	CAP Level 2	-	%	-
OUT-32	Relay 2	37 : Cap Warning		

S100

Features (Reliability)

IP66(NEMA4X)

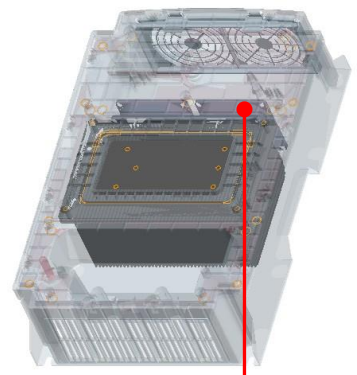
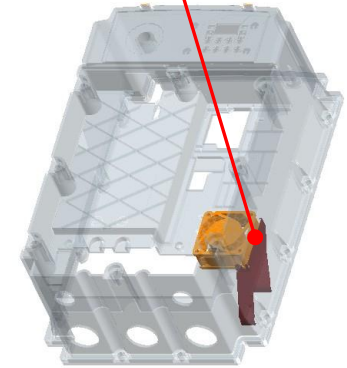
IP66 and NEMA4X models are available up to S100 22kW which provides water-proof and dust-proof protection and separated installation in a harsh environment, specially Food & Beverage.

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Power disconnecting switch



Internal cooling Fan for PCBs and Capacitor



External Cooling Fan for Heat sink

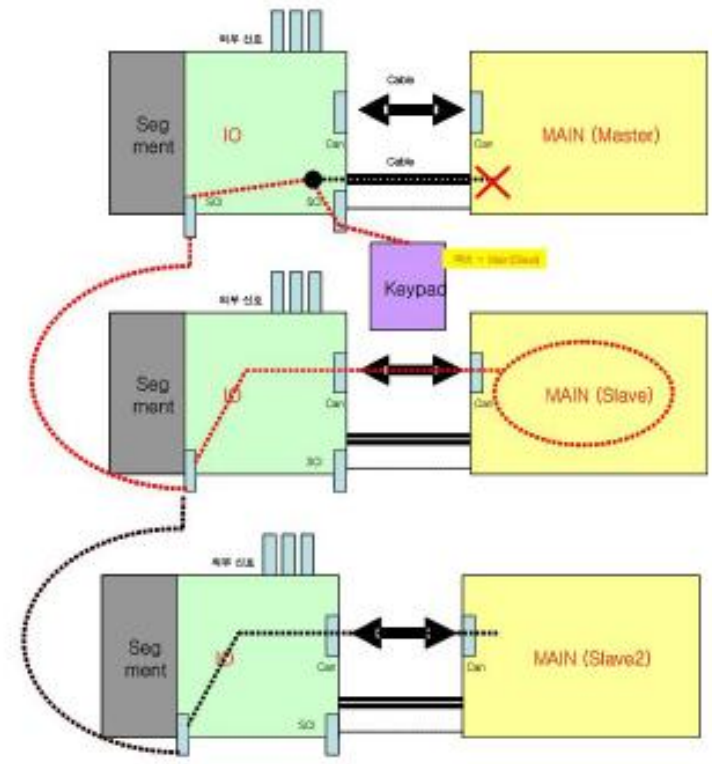
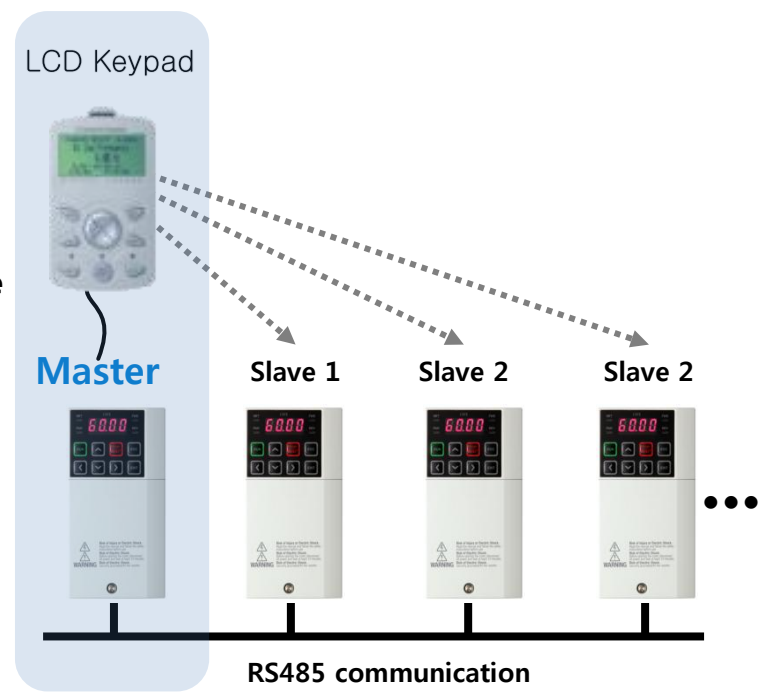
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Features (User convenience)

Multi-Keypad

A optional LCD keypad* of Master drive enables to access every drive (Slave) connected via inbuilt RS485 communication so that the users adjust and monitor parameters easily.



*LCD keypad of S100 is the same as IS7's one. It is a external option for S100 0.4~22kW, but is inbuilt for 30~75kW.

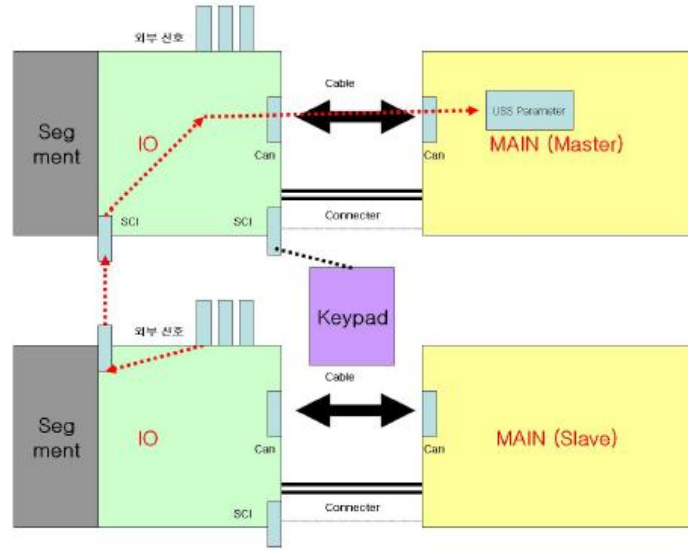
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Features (User convenience)

P2P communication

Peer to peer communication among the drives allows to share any I/O via inbuilt RS485 communication. It might be useful in case of limited number of I/O points for a certain system.

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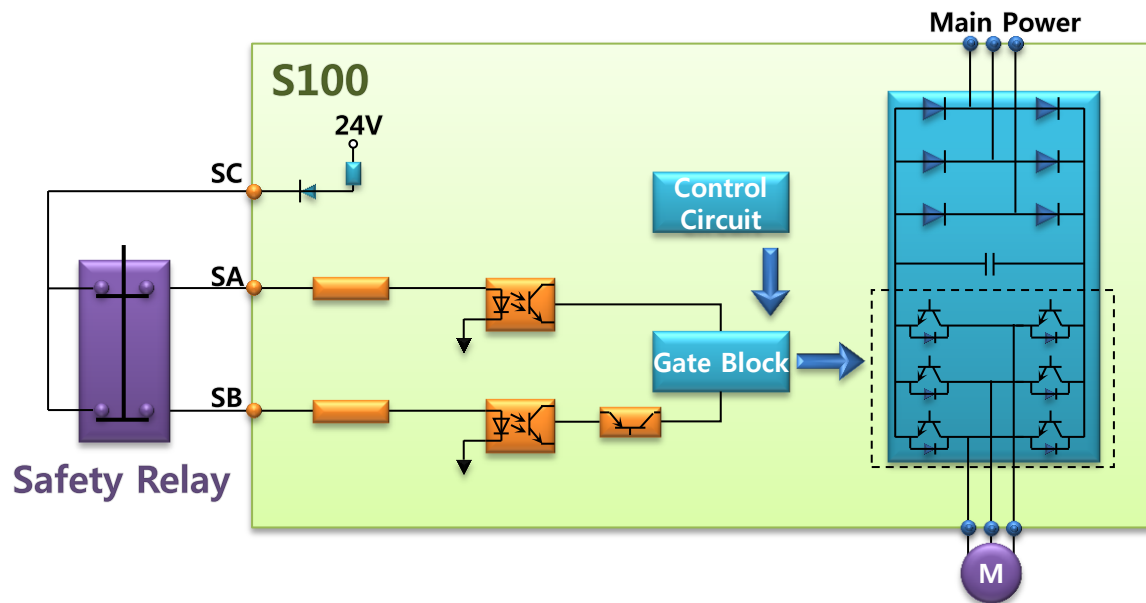
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■ Features (User convenience)

Safety Disable function (Safety Stop)

S100 is compliant to the EU Machinery Directive without the additional of previously required external devices. Through this compliance, S100 reduces the number of peripheral devices needed to satisfy safety regulation. It results in cost, space, and maintenance reduction.



Functional Safety
FS
 Type Approved

This Safe Disable function can be utilized to perform a safe stop according to the **EN60204-1, stop category 0** (Uncontrolled stop by power removal). It is designed to meet the requirements of the **EN954-1, Safety Category 3** and **EN61508, SIL2** and **EN ISO 13849-1 PL d**. Removing the voltage from the Terminals SA, SB activates the disables the drive output, i.e. the power supply to the motor is cut by stopping the switching of the output transistors and "SFT" is shown in the display.

* Note : Output is cut in less than 1ms (SA is activated) or 20ms (SB is activated), but general response time is 1ms (SA and SB are activated coincidentally).

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Features (User convenience)

Inbuilt User Sequence (Simple PLC function)

1. Simple sequence can be made with combination of function blocks such as PID, arithmetic operation, bitwise operation, etc.

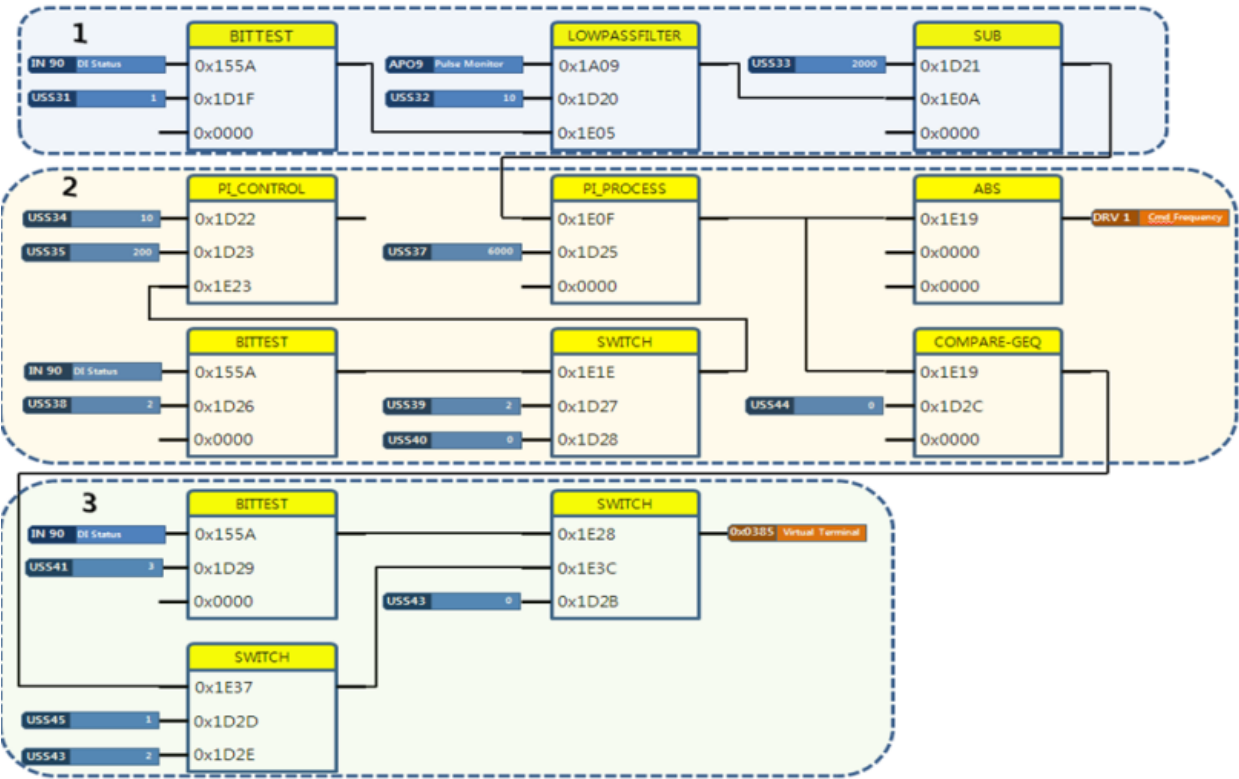
2. Consists of max. 18 steps with 29 function block, 30 void parameters

Loop Time : Can choose between 10msec ~ 1sec

Parameter Group

US Group : User Sequence setting

UF Group : Function Block function and input/output definition

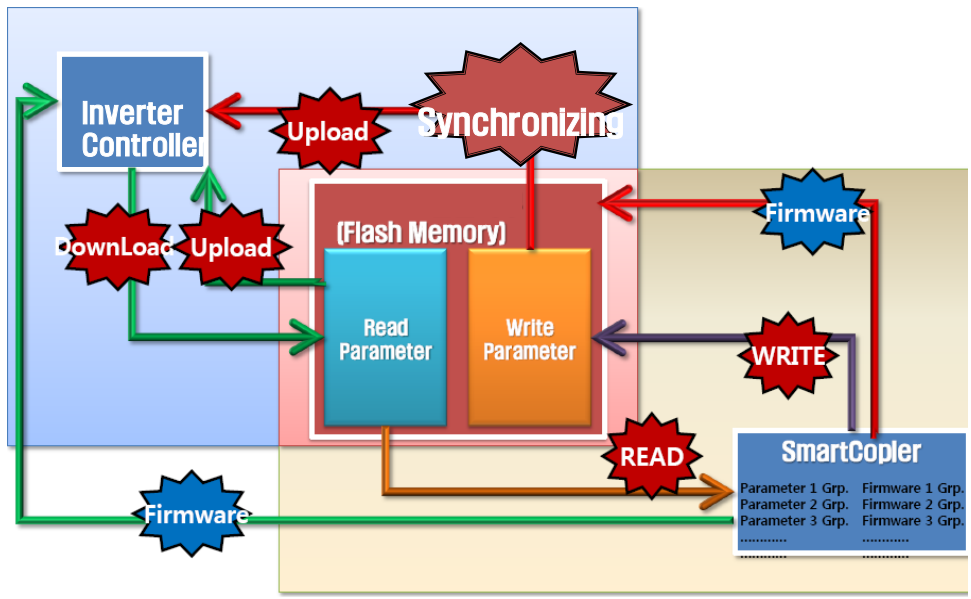


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Features (User convenience)

Smart Copier

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[Smart Copier]

[Features]

- Save 1 firmware to download
- Save 4 parameter groups
- Built in Battery
(80 times of firmware download)
(1000 times of parameter download)

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■ Features (User convenience)

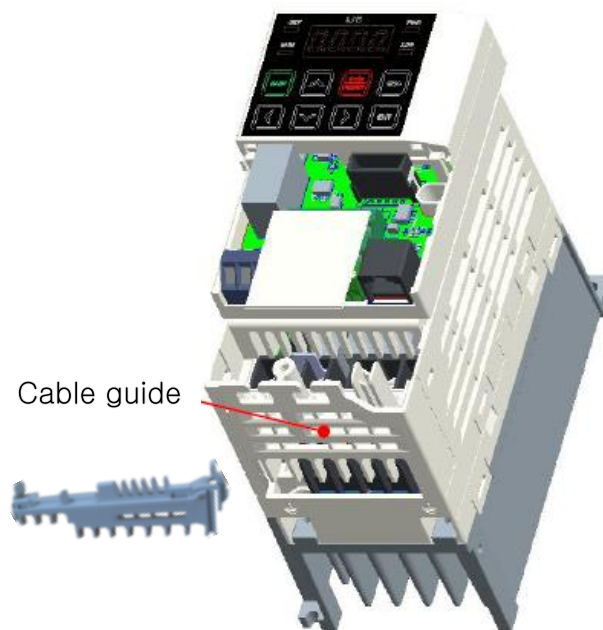
Easy cooling fan replacement

Cooling fan is provided on top of all drives (except for below 1.5kW) and it can be easily replaced without disconnecting main circuit wires.



Easy wiring

Since a cable guide can be fitted after wiring, wiring work is easily done.



Keep track of part wear of Main Capcitor and Fan

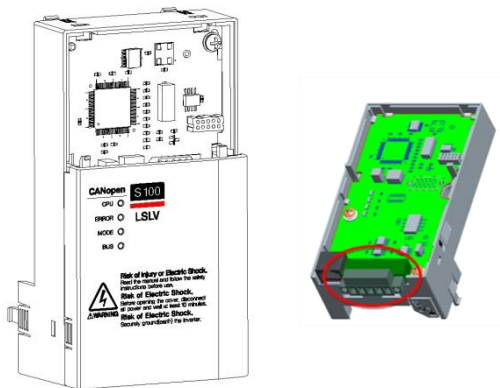
S100 monitors both main capacitor's lifecycle and Fan. When the life span of Fan is near, S100 outputs via Relay or Digital output as a alarm sign.

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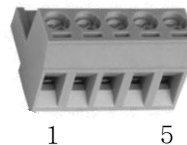
Options

Communication option (CANopen)

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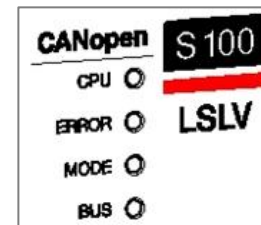
Connector	Pin	Signal	Description
	1	GND	CAN Ground
	2	CAN_L	CAN_L Bus Line (Dominant Low)
	3	SLD	CAN Shield
	4	CAN_H	CAN_H Bus Line (Dominant High)
	5	-	Reserved



8] Launching schedule ● Technical Data

Device Type	CANopen
Network Topology	Bus Topology
Comm. Baud Rate	20kbps, 50kbps, 125kbps, 250kbps, 500kbps, 800kbps, 1Mkbps
Max. no. of Node	64 (Including Master)
supporting comm.	Process Data Object (PDO), Service Data Object (SDO), Synchronization (Sync), Network Management (NMT)
Terminal resistor	120 ohm 1/4W (내장)
Available PDO	PDO1 (CiA 402 Drive and Motion Control device profile) PDO3 (LS Profile)
Vender Name	0x7D (LSIS)

● LED

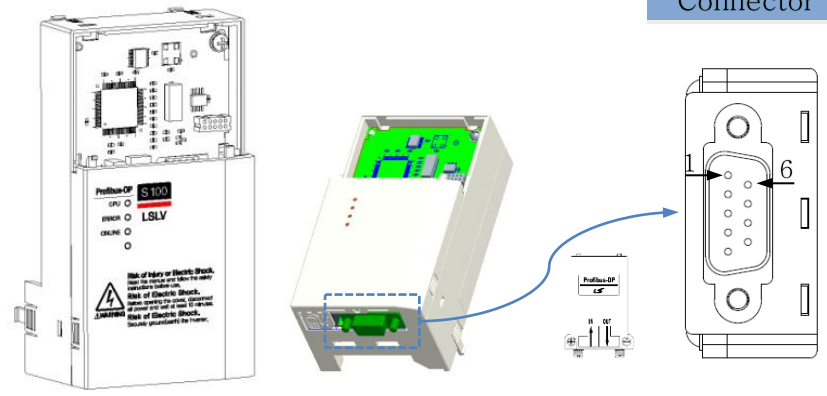


LED	Color	Description
CPU	Green	Power status
ERROR	Red	Parameter setting error, comm. Error
MODE	Green	NMT status
BUS	Red	Different speed and profile from Master

S100

- 1] LV Drive Line-up
- 2] Target application
- 3] Fame design
- 4] General spec.
- 5] Features
- 6] Option
- 7] Comparison
- 8] Launching schedule

Options
Communication option (Profibus DP)

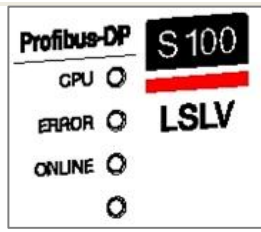


Connector	Pin	Signal	Description
	1	None	None
	2	M24	24V output GND
	3	RxD/TxD-P	Transmitter-receiver data Plus
	4	CTRL-P	Control signal for Repeater
	5	DGND	Signal GND
	6	VP	5V for terminal resistor
	7	P24	24V output Plus
	8	RxD/TxD-N	Transmitter-receiver data Negative
	9	CTRL-N	Control signal for Repeater

● Technical Data

Device Type	PROFIBUS-DP Slave
Auto Baud Rate Detect	Support
Sync Mode	Support
Freeze Mode	Support
Max Input Length	8 words
Max Output Length	8 words
Baud Rate Support	9.6K, 19.2K, 93.75K, 187.5K, 500K, 1.5M, 3M, 6M, 12M
Modular Station	Support
Max Module	2
Max. no. of Nodes	Max 32 nodes without repeater (Including Master)
LED	CPU, ERR, ONLINE
Comm. connector	9Pin D-sub

● LED



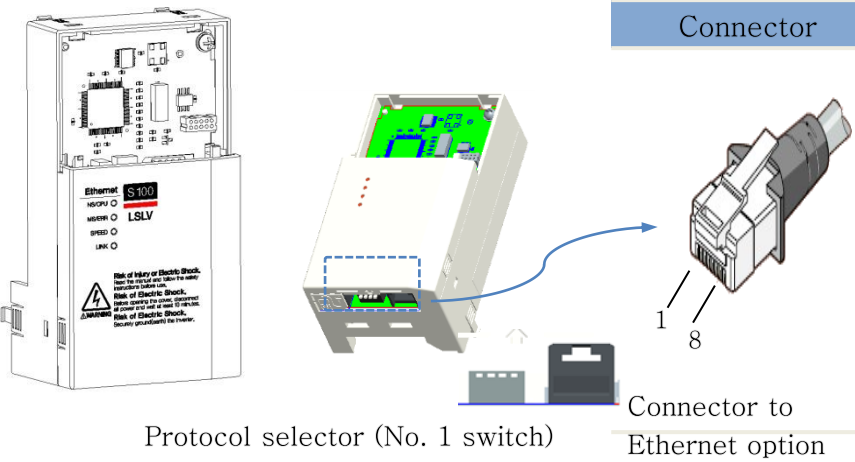
LED	Color	Description
CPU	Green	Power status
ERROR	Red	Comm. Error
ONLINE	Green	Comm. Online status

S100

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Options

Communication option (Modbus TCP / Ethernet I/P)



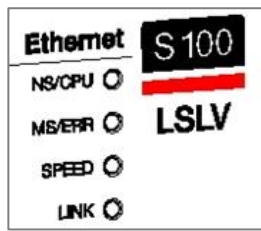
Connector	Pin	Signal	Description
	1	TX+	Transmitter data Plus
	2	TX-	Transmitter data Minus
	3	RX+	Receiver data Plus
	4	NONE	Not used
	5	NONE	Not used
	6	RX-	Receiver Minus
	7	NONE	Not used
	8	NONE	Not used

● Technical Data

Device Type	ETHERNET-IP
Speed	10Mbps, 100Mbps
Comm. Method	Base band
Max. distance between nodes	100m (Node-Hurb)
Max. no. of Nodes	Connected to Hurb
Auto Negotiation	Support
Max. frame size	1500 bites
Comm. Area access method	CSMA/CD
Frame error checking method	CRC32

Recommended connector
TCP Socket 2 Socket

● LED

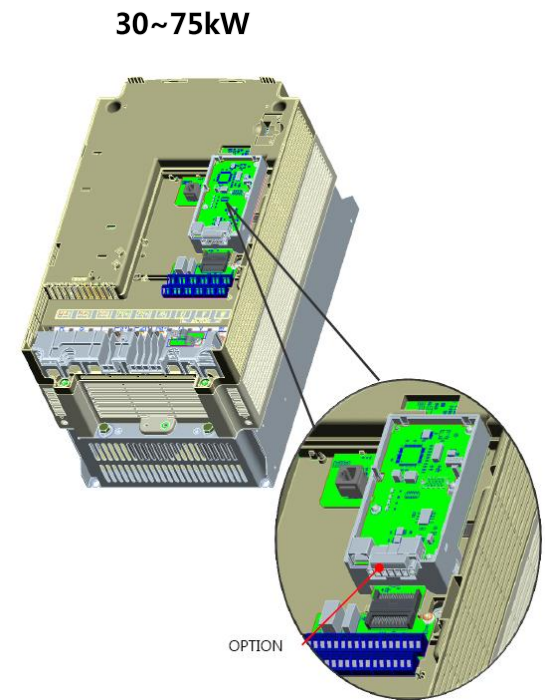
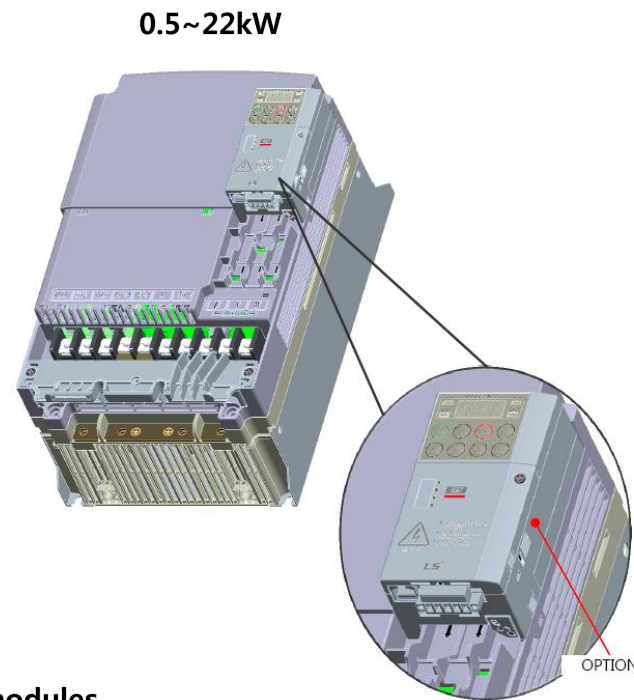


LED	Color	Description
SPEED	Green	ON Speed 100Mbps
		OFF Speed10Mbps
LINK	Green	ON Comm. ready OK
		OFF Comm. ready FAIL

S100

Options *How to mount option cards*

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● How to mount the modules



- ① Take off Bottom Cover
- ② Take off I/O Cover
- ③ Take off KPD Cover
- ④ Mount a module
- ⑤ Reassemble -Mount KPD cover, I/O cover, Bottom cover

S100

Options

Other options

Conduit option: S100 meets NEMA 1 with this option.

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Flange option: S100 allows its heatsink to be installed outside of panel for better cooling system with this option.



S100

 Comparison

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Competitor (Series)	Yaskawa (V1000)	Mitsubishi (E700)	ABB (ACS355)	Danfoss (FC51)	LSIS (S100)
Appearance					
1Φ 200V class	0.1~3.7KW	0.1~2.2KW	0.37~2.2KW	0.18~2.2KW	0.4~2.2KW
3Φ 200V class	0.1~15KW	0.1~15KW	0.37~11KW	0.18~3.7KW	0.4~15KW
3Φ 400V class	0.2~15KW	0.4~15KW	0.37~22KW	0.18~22KW	0.4~75KW
Dual rating	Semi	No	No	No	Semi
EMC filter	Category 3 (External Option)	Category 3 (External Option)	Category 3 (Built-in)	Category 1/2 (Built-in)	Category 2/3 (Built-in or External)
Machinery Directive(Safety)	STO, SIL2	X	STO, SIL3	X	STO, SIL2
Enclosure	IP20 NEMA1 IP66/NEMA4X	IP20/IP40	IP20/UL Open NEMA1/ IP66/67/NEMA4X (~7.5kW)	IP20 IP21/NEMA 1	IP20/UL Open NEMA1/ IP66/NEMA4X (~22kW)
Temperature	-10~50°C (Open Chasis) 40°C:10% Derating (NEMA1)	-10~50°C	-10~40°C 50°C:10% Derating	50°C (40°C : 24hr.)	-10~50°C (Heavy Duty) -10~40°C (Normal Duty)
User sequence (Simple PLC)	Yes	X	Yes	Smart Logic	Yes
Braking chopper	Built-in as standard	Built-in 0.4~15KW	Built-in as standard	Built-in 1.5~22KW	Built-in as standard up to 22kW
Control Mode	V/f, SLV(IM) / SLV(PM)	V/f, SLV 1,2	V/f, SLV, SV	V/f, SLV	V/f, SLV(IM) / SLV(PM)
Fieldbus	Modbus RTU, Mechatrolink-II, CC-Link, DeviceNet, Profibus DP, CANopen, LonWorks	Modbus RTU, CC-Link, DeviceNet, Profibus DP, LonWorks	Profibus DP, DeviceNet, CANopen, Modbus, Ethernet	Modbus RTU	Modbus RTU, Profibus-DP, CANopen, Ethernet

S100

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■ Launching schedule



Step 1
 5.5~22kW 400V Class (Inbuilt EMC filter)
 5.5~15kW 200V Class (Standard)

'14.07

Launching



Step 2
 0.4~4kW 400V Class (Standard)
 0.4~4kW 200V Class (Standard)

'14.07

Launching



Step 3
 0.4~22kW 400V Class (IP66, NEMA4X)
 0.4~15kW 200V Class (IP66, NEMA4X)

'14.08

Launching



Step 3
 30~75kW 400V Class
 (Inbuilt EMC filter & DC Reactor)

'14.07

Launching



Step 5
 0.4~4kW 400V Class (Inbuilt EMC Filter)
 0.4~4kW 200V Class (Inbuilt EMC Filter)

'14.09

Launching