

Factory Automation

PLC (XGT) / HMI (XGT Panel) / Motion Controller (XMC) /
Servo Drive & Motor (Xmotion) / Gearbox





Features

XGK Series

- Fastest CPU processing of 8.5ns/step
- Up to 6,144 I/O points configurable (32,768 points controllable with remote I/O)
- Integrated intelligent software package : XG5000, XG-PD, XG-PM
- System solution based on open network : Ethernet, Profibus-DP, DeviceNet
- Special devices for easy programming
- Massive device memory
- USB I/F for programming up/download & monitoring

XGI Series

- Fastest CPU processing of 8.5ns/step
- Up to 6,144 I/O points configurable (131,072 points controllable with remote I/O)
- IEC 61131-3 standard programming
 - LD (Ladder diagram), SFC (Sequential function chart), ST (Structured text)
 - User defined FB (Function block)
- Built-in PID function (Max. 256 loop)
- USB I/F for programming up/download & monitoring

Modules

CPU Modules

High-Speed and Large Scale Control

XGK-CPUUN (XGI-CPUUN)

- Built-in Ethernet port
- 256K (2MB) program memory
- 8.5ns processing speed
- 6,144 I/O points control

XGK-CPUU (XGI-CPUU)

- 128K (1MB) program memory
- 28ns processing speed
- 6,144 I/O points control

XGK-CPUHN

- Built-in Ethernet port
- 128K (1MB) program memory
- 8.5ns processing speed
- 6,144 I/O points control

XGK-CPUH (XGI-CPUH)

- 64K (512KB) program memory
- 28ns processing speed
- 6,144 I/O points control

XGK-CPUSN

- Built-in Ethernet port
- 64K (512KB) program memory
- 8.5ns processing speed
- 3,072 I/O points control

XGK-CPUA

- 32K program memory
- 28ns processing speed
- 3,072 I/O points control

General Sequence Control

XGK-CPUS (XGI-CPUS)

- 32K (128KB) program memory
- 84ns processing speed
- 3,072 I/O points control

XGK-CPUE (XGI-CPUE)

- 16K (64KB) program memory
- 84ns processing speed
- 1,536 I/O points control

Expansion Modules

Power Modules

With AC free voltage, 220V and DC 24 V power supply

Base Modules

With 4/6/8/12 main and expansion base

Digital Input /Output Modules

From 8 to 64 of transistor, Relay and triac switches

Analog Input /Output Modules

With 4 or 8 ch current/Voltage signals

Temperature Input Modules

With 4 ch Pt100/JPt100 resistance thermometer and thermocouple

High Speed Counter Module

For connection with incremental encoder (2 channels of open collector or line driver type)

Motion/Positioning module

EtherCAT based motion / positioning for servo and motor (1~32 axes)

Network Modules

Fast Ethernet Modules

Ethernet Network with TCP/IP protocol

Profibus-DP Modules

Profibus-DP fieldbus protocol for connection between LS PLC and different manufacturers

DeviceNet Modules

DeviceNet fieldbus protocol for connection between LS PLC and different manufacturers

Rnet Modules

Dedicated network for remote I/O control (LS Smart I/O)

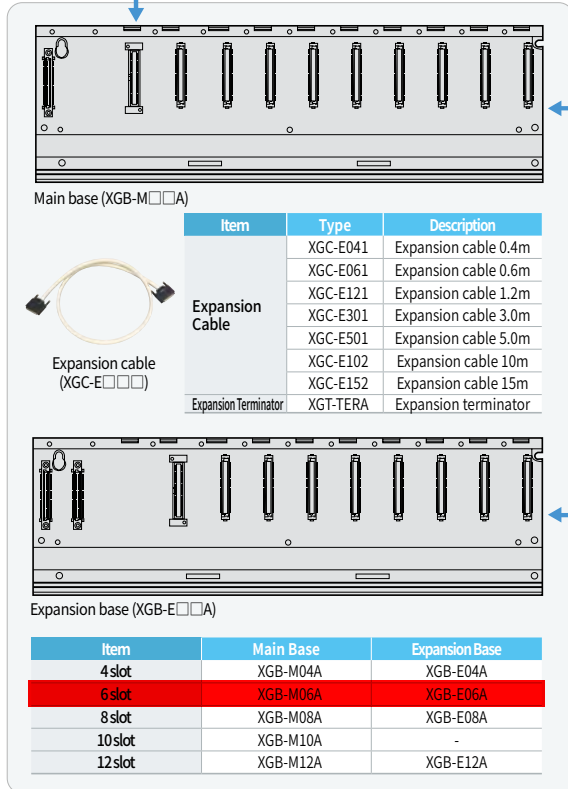
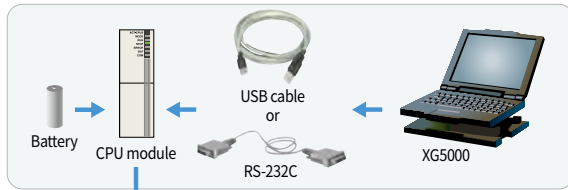
Cnet Module

Serial communication module with RS-232C/422/485

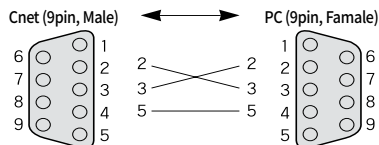
RAPiEnet Module

Dedicated network based on Ethernet

System Composition



XG5000 Cable (RS-232C)



CPU Module		I/O Point
XGK	XGK-CPUH, CPUU, CPUHN, CPUUN	6,144
	XGK-CPUS, CPUA, CPUSN	3,072
	XGK-CPUE	1,536
XGI	XGI-CPUUN, CPUU/D, CPUU, CPUH	6,144
	XGI-CPUS	3,072
	XGI-CPUE	1,536

CPU Connecting Cable	
USB 301A	USB downloading cable
K1C-050A	RS-232C downloading cable

Item	Type	Description
USB cable	USB-301A	USB downloading cable
RS-232C cable	K1C-050A	RS-232C downloading cable

Item	Input Module		
	AC110V	AC220V	DC24V
8 points	-	XGI-A21A	XGI-D21A
16 points	XGI-A12A	-	XGI-D22A
	-	-	XGI-D22B
32 points	-	-	XGI-D24A
	-	-	XGI-D24B
64 points	-	-	XGI-D28A
	-	-	XGI-D28B



Power Module			
AC	Free Voltage	XGP-ACF1	DC5V 3A DC24V 0.6A
	220V	XGP-ACF2	DC5V 6A
DC		XGP-AC23	DC5V 8.5A
		XGP-DC42	DC5V 6A

Item	Output Module		
	Relay	Triac	Transistor
8 points	XGQ-RY1A	-	XGQ-TR1C
16 points	XGQ-RY2A	XGQ-SS2A	XGQ-TR2A
	XGQ-RY2B	-	XGQ-TR2B
32 points	-	-	XGQ-TR4A
	-	-	XGQ-TR4B
64 points	-	-	XGQ-TR8A
	-	-	XGQ-TR8B

Item	Special Module	
Analog Input	XGF-AV8A	Voltage input type, 8ch
	XGF-AC8A	Current input type, 8ch
	XGF-AD8A	Voltage/ Current input, 8ch
	XGF-AD4S	Voltage/ Current input, 4ch (Isolated)
	XGF-AD16A	Voltage/ Current input, 16ch
Analog Output	XGF-AW4S	2-Wire, Voltage/ Current input, 4ch (Isolated)
	XGF-DV4A	Voltage output type, 4ch
	XGF-DC4A	Current output type, 4ch
	XGF-DV8A	Voltage output type, 8ch
	XGF-DC8A	Current output type, 8ch
Analog Input/Output	XGF-DV4S	Voltage output, 4ch (Isolated)
	XGF-DC4S	Current output, 4ch (Isolated)
High-Speed Counter	XGF-AH6A	Input : 4ch, Voltage/ Current
		Output : 2ch voltage/ Current
Positioning	XGF-HO2A	Pulse (OC) input type, 2ch
	XGF-HD2A	Pulse (LD) input type, 2ch
Positioning (Network Type)	XGF-PO1H-PO4H	Open collector, 1-4axes
	XGF-PD1H-PD4H	Line drive, 1-4axes
Motion Module	XGF-PN8A	LS Standard EtherCAT Net. 8axes
	XGF-PN8B	Standard EtherCAT Net. 8axes
Temperature Control	XGF-M32E	Standard EtherCAT 32axes
	XGF-TC4S	Thermocouple input, 4ch
Temperature Controller	XGF-RD4A	RTD input, 4ch
	XGF-RD4S	RTD Input, 4ch (Insulated)
Event Input	XGF-TC4UD	Input: 4ch. (Voltage/Current, RTD/TC)
		Output: 8ch. (TR/Current)
Data Log	XGF-TC4RT	Controller: 4 loops
		Input: 4ch. (RTD)
		Output: 4ch. (TR)
		Controller: 4 loops
		DC24V, 32points
	XGF-SOEA	USB2.0, CF2001, Max16Gbyte, 32points
	XGF-DL16A	1 slot (Input 22 points, Output 10 points)

Item	Communication Module	
RAPIEnet+ - RAPIEnet v2 - EtherNet/IP - Modbus TCP/IP - Dedicated XGT Network	XGL-EFMTB	Master/Client, Twisted fair 2ch.
	XGL-EFMFB	Master/Client, Fiber optic 2ch.
	XGL-EFMHB	Master/Client, Twisted fair/fiber optic
	XGL-DBDT	Expansion driver - Twisted pair 2ch.
	XGL-DBDF	Expansion driver - Fiber optic 2ch.
	XGL-DBDH	Expansion driver - Fiber optic / Twisted pair
	XOL-ES4T	Stand alone switch twisted pair 4ch.
	XOL-ES4H	Stand alone switch twisted 2ch. fiber 2ch.
	XGL-EH5T	Open Ethernet switching hub
	XGL-CH2B	RS-232C 1ch., RS-422/485 1ch.
Computer Link (Cnet)	XGL-C22B	RS-232C 2ch.
	XGL-C42B	RS-422/485 2ch.
DeviceNet (Dnet)	XGL-DMEB	DeviceNet, Master
	XGL-DSEB	DeviceNet, Slave
Profibus-DP (Pnet)	XGL-PMEB	Profibus-DP, Master
	XGL-PSRA	Profibus-DP Slave, Remote interface
Rnet	XGL-PSEA	Profibus-DP Slave
	XGL-RMEB	Rnet, Master, TP
Fnet	GOL-RR8T	Rnet stand alone repeater hub
BACnet/IP	XGL-FMEA	Fnet, Master
	XGL-BIPT	BACnet client/server
RAPIEnetv1	XGL-EIMT	RAPIEnet, Twisted fair 2Ch
	XGL-EIMF	RAPIEnet, Fiber optic 2Ch
EtherNet/IP	XGL-EIMH	RAPIEnet, Twisted fair, Fiber optic
	XGL-EIPT	Industrial Ethernet, Twisted fair 2Ch

PLC XGB Series | Compact and Block Type PLC

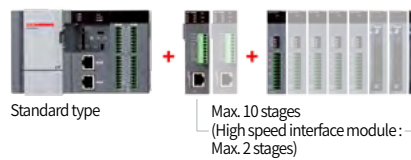


Features

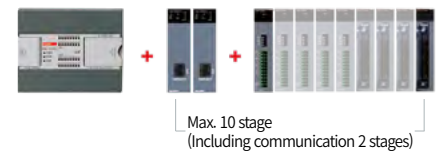
XGB-U (XBC / XEC-U)

- Max. 60ns/step processing speed
- Max. 2 high speed backplane extension modules
- Max. 10 expansion modules
- Max. 352 I/O points
- 32Ksteps/384KB program capacity
- Line-up : Standard, Built-in analog, Built-in positioning
- * Built in Ethernet, SD card

XBC / XEC-U

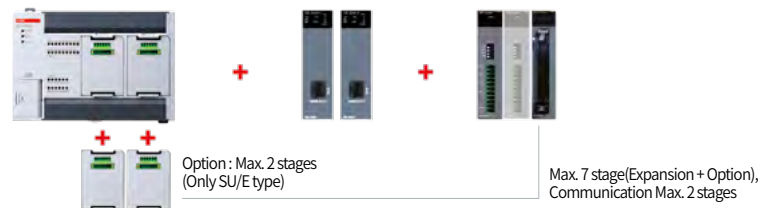


XBC / XEC-H



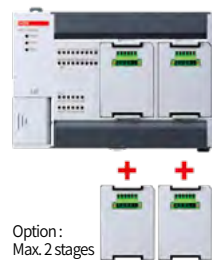
XBC / XEC-SU

- Max. 94ns/step processing speed
- Max. 7 expansion modules
- Max. 284 I/O points
- 15Ksteps/200KB program capacity



XBC / XEC-E

- Max. 240ns/step processing speed
- Max. 2 expansion modules
- Max. 38 I/O points
- 4Ksteps/50KB program capacity



Option Modules

XBO-M2MB	Memory / Program READ/WRITE
XBO-RTCA	RTC (Real time clock), Battery
XBO-DC04A	DC 24V, Input 4 points
XBO-TN04A	TR (Sink), Output 4 points
XBO-AD02A	Voltage/Current, Input 2ch
XBO-DA02A	Voltage/Current, Output 2ch
XBO-AH02A	Voltage/Current, Input 1ch / Voltage/Current, Output 1ch
XBO-RD01A	RTD (Resistance temperature detector), Input 1ch
XBO-TC02A	TC (Thermo couple), Input 2ch

XBM / XEM-H2, HP

- Max. 40ns/step instruction times
- 64Kstep built-in program memory
- Max. 256 I/O points
- Expandability : 7 cards
(Compatible with all XGB cards)



XBM-S

- Max. 160ns/step processing speed
- Max. 7 expansion modules
- Max. 256 I/O points
- 10Ksteps program capacity



Product List

Block Type Unit (U)	
Model	Specification
XBC/XEC-DN(P)32U	AC 110-220V, 16points DC24V input, 16points transistor sink(Source) type output
XBC/XEC-DR28U	AC 110-220V, 16points DC24V input, 12points relay output
XBC/XEC-DN(P)32UP	AC 110-220V, 16points DC24V input, 16points transistor sink(Source) type output, 4 axes built-in positioning
XBC/XEC-DR28UP	AC 110-220V, 16points DC24V input, 12points relay output, 4 axes built-in positioning
XBC/XEC-DN(P)32UA	AC 110-220V, DC24V input, 16points transistor sink(Source) type output, 8 channel built-in analog
XBC/XEC-DR28UA	AC 110-220V, DC24V input, 12points relay output, 8 channel built-in analog
XBC/XEC-DN(P)32U/DC	DC 24V, 16points DC24V input, 16points transistor sink(Source) type output
XBC/XEC-DR28U/DC	DC 24V, 16points DC24V input, 12points relay output
XBC/XEC-DN(P)32UP/DC	DC 24V, 16points DC24V input, 16points transistor sink(Source) type output, 4 axes built-in positioning
XBC/XEC-DR28UP/DC	DC 24V, 16points DC24V input, 12points relay output, 4 axes built-in positioning
XBC/XEC-DN(P)32UA/DC	DC 24V, DC24V input, 16points transistor sink(Source) type output, 8 channel built-in analog
XBC/XEC-DR28UA/DC	DC 24V, DC24V input, 12points relay output, 8 channel built-in analog
Block Type Unit (High Performance)	
XBC/XEC-DR32H	AC 100-240V, DC24 input 16 pts, Relay output 16 pts
XBC/XEC-DR64H	AC 100-240V, DC24 input 32 pts, Relay output 32 pts
XBC/XEC-DN32H	AC 100-240V, DC24 input 16 pts, Tr. output 16 pts (Sink)
XBC/XEC-DN64H	AC 100-240V, DC24 input 32 pts, Tr. output 32 pts (Sink)
XEC-DP32H	AC 100-240V, DC24 input 16 pts, Tr. output 16 pts (Source)
XEC-DP64H	AC 100-240V, DC24 input 32 pts, Tr. output 32 pts (Source)
XBC-DR32H/DC	DC 24V, DC24 input 16 pts, Relay output 16 pts
XBC-DR64H/DC	DC 24V, DC24 input 32 pts, Relay output 32 pts
XBC-DN32H/DC	DC 24V, DC24 input 16 pts, Tr. output 16 pts (Sink)
XBC-DN64H/DC	DC 24V, DC24 input 32 pts, Tr. output 32 pts (Sink)
XEC-DR32H/D1	DC 12/24V, DC12/24 input 16 pts, Relay output 16 pts
XEC-DR64H/D1	DC 12/24V, DC12/24 input 32 pts, Relay output 32 pts
Block Type Unit (Standard)	
XBC/XEC-DR20SU	AC 100 - 240, DC24V input 12 points, Relay output 8 points
XBC/XEC-DR30SU	AC 100 - 240, DC24V input 18 points, Relay output 12 points
XBC/XEC-DR40SU	AC 100 - 240, DC24V input 24 points, Relay output 16 points
XBC/XEC-DR60SU	AC 100 - 240, DC24V input 36 points, Relay output 24 points
XBC/XEC-DN20SU	AC 100 - 240, DC24V input 12 points, Transistor output 8 points (Sink)
XBC/XEC-DN30SU	AC 100 - 240, DC24V input 18 points, Transistor output 12 points (Sink)
XBC/XEC-DN40SU	AC 100 - 240, DC24V input 24 points, Transistor output 16 points (Sink)
XBC/XEC-DN60SU	AC 100 - 240, DC24V input 36 points, Transistor output 24 points (Sink)
XBC/XEC-DP20SU	AC 100 - 240, DC24V input 12 points, Transistor output 8 points (Source)
XBC/XEC-DP30SU	AC 100 - 240, DC24V input 18 points, Transistor output 12 points (Source)
XBC/XEC-DP40SU	AC 100 - 240, DC24V input 24 points, Transistor output 16 points (Source)
XBC/XEC-DP60SU	AC 100 - 240, DC24V input 36 points, Transistor output 24 points (Source)
Block Type Unit (Economic)	
XBC/XEC-DR10E	AC 100-240V, 6 pts DC input, 4 pts relay ouput
XBC/XEC-DR14E	AC 100-240V, 8 pts DC input, 6 pts relay ouput
XBC/XEC-DR20E	AC 100-240V, 12 pts DC input, 8 pts relay ouput
XBC/XEC-DR30E	AC 100-240V, 18 pts DC input, 12 pts relay ouput
XBC/XEC-DN10E	AC 100-240V, 6 pts DC input, 4 pts Tr. output (Sink)
XBC/XEC-DN14E	AC 100-240V, 8 pts DC input, 6 pts Tr. output (Sink)
XBC/XEC-DN20E	AC 100-240V, 12 pts DC input, 8 pts Tr. output (Sink)
XBC/XEC-DN30E	AC 100-240V, 18 pts DC input, 12 pts Tr. output (Sink)
XBC/XEC-DP10E	AC 100-240V, 6 pts DC input, 4 pts Tr. output (Source)
XBC/XEC-DP14E	AC 100-240V, 8 pts DC input, 6 pts Tr. output (Source)
XBC/XEC-DP20E	AC 100-240V, 12 pts DC input, 8 pts Tr. output (Source)
XBC/XEC-DP30E	AC 100-240V, 18 pts DC input, 12 pts Tr. output (Source)
Modular Type Unit	
XBM/XEM-DN32H2	DC24V, 16 pts DC24V input, 16 pts TR output(Sink), 2 axes built-in positioning (XPM)
XBM/XEM-DN32HP	DC24V, 16 pts DC24V input, 16 pts TR output(Sink), 6 axes built-in positioning (XPM)
XBM/XEM-DP32H2	DC24V, 16 pts DC24V input, 16 pts TR output(Source), 2 axes built-in positioning (XPM)
XBM/XEM-DP32HP	DC24V, 16 pts DC24V input, 16 pts TR output(Source), 6 axes built-in positioning (XPM)
XBM-DR16S	AC 100-240V, DC24 input 8 pts, Tr. output 8 pts (Sink)
XBM-DN16S	AC 100-240V, DC24 input 8 pts, Tr. output 8 pts (Source)
XBM-DN32S	AC 100-240V, DC24 input 16 pts, Tr. output 16 pts (Source)
Loader Cable	
PMC-310S	Connection cable (PC to PLC), 9pin (PC)-6pin (PLC)
USB-301A	Connection cable (PC to PLC), USB

Expansion I / O Module			
Model	Specification	Model	Specification
XBE-AC08A	8 pts AC110V input	XBE-TN08A	8 pts Tr. (Sink) output
XBE-DC08A	8 pts DC 24V input	XBE-TN16A	16 pts Tr. (Sink) output
XBE-DC16A	16 pts DC 12/24V input	XBE-TN32A	32 pts Tr. (Sink) output
XBE-DC16B	16 pts DC 24V input	XBE-TP08A	8 pts Tr. (Source) output
XBE-DC32A	32 pts DC 24V input	XBE-TP16A	16 pts Tr. (Source) output
XBE-RY08A	8 pts relay output	XBE-TP32A	32 pts Tr. (Source) output
XBE-RY08B	8 pts relay output	XBE-DR16A	8 pts DC 24V input, 8pts relay output
XBE-RY16A	16 pts relay output	XBE-DN32A	16 pts DC24V input, 16 pts TR output

Special Module	
XBF-AD04A	4ch analog input (Current/Voltage)
XBF-AD04C	4ch analog input (Current/Voltage, Resolution : 1/16000)
XBF-AH04A	2ch analog input (Current/Voltage)/2ch analog output (Current/Voltage)
XBF-DV04A	4ch analog output (Voltage)
XBF-DV04C	4ch analog input (Voltage, Resolution : 1/16000)
XBF-DC04A	4ch analog output (Current)
XBF-DC04C	4ch analog input (Current, Resolution : 1/16000)
XBF-RD04A	4ch RTD input
XBF-TC04S	4ch thermocouple input
XBF-TC04TT	Temperature controller, Thermocouple
XBF-TC04RT	Temperature controller, RTD
XBF-PD02A	Line drive 2axes
XBF-PN08B	EtherCAT positioning module, 8axesa
XBF-PN04B	Standard EtherCAT network, 4axis
XBF-AD08A	8Ch analog input (Current/Voltage)
XBF-HO02A	2ch high-speed counter input (Open collector)
XBF-HD02A	2ch high-speed counter input (Line drive)

Communication Module	
XBL-C41A	Cnet (RS-422/485), 1ch
XBL-C21A	Cnet (RS-232C), 1ch
XBL-EMTA	Fast Ethernet (100Mbps), 1ch
XBL-EIPT	Ethernet/IP, 2ch
XBL-EIMT	RAPiEnet, Twisted pair 2ch, 100Mbps
XBL-EIMF	RAPiEnet I/F, Max. 2km (Fiber 2ch.), 100Mbps
XBL-EIMH	RAPiEnet I/F (Twisted pair 1ch, Fiber 1ch.), 100Mbps
XBL-PMEC	Profibus-DP, Master, RS-485
XBL-PSEA	Profibus-DP, Slave, RS-485
XBL-DSEA	DeviceNet, Slave
XBL-RMEA	Rnet, Master
XBL-CMEA	CANopen (10, 20, 50, 100, 125, 250, 500, 800, 1000Kbps, Num of PDO : 32)
XBL-CSEA	CANopen (10, 20, 50, 100, 125, 250, 500, 800, 1000Kbps, Num of PDO : 64)

Option Module	
XBO-AD02A	Voltage/Current, Input 2ch
XBO-DA02A	Voltage/Current, Output 2ch
XBO-AH02A	Voltage/Current, Input 1ch, Voltage/Current, Output 1ch
XBO-TC02A	TC (Thermo couple), Input 2ch
XBO-RTCA	RTC (Real time clock), Battery
XBO-DC04A	DC 24V, Input 4 pts
XBO-TN04A	TR (Sink), Output 4 pts
XBO-RD01A	RTD (Resistance temperature detector), Input 1ch
XBO-M2MB	Memory

Connection Cable	XBF-PD02A	XBF-H002A	XBF-HD02A	XBE-DC32A	XBE-TN32A	XBE-TP32S	XBM-DN16S	XBM-DN32S	XBM/XEM-H2 HP	XBM/XEM-UP	Cable length
R40H/20HH-05S-XBM3							●	●			0.5m
R40H/20HH-10S-XBM3							●	●			1m
C40HH-05SB-XBI	●	●	●	●	●	●			●	●	0.5m
C40HH-10SB-XBI	●	●	●	●	●	●			●	●	1m
C40HH-15SB-XBI	●	●	●	●	●	●			●	●	1.5m
C40HH-20SB-XBI	●	●	●	●	●	●			●	●	2m
C40HH-30SB-XBI	●	●	●	●	●	●			●	●	3m
C40HH-05SB-XBE				●	●						0.5m
C40HH-10SB-XBE				●	●						1m
C40HH-15SB-XBE				●	●						1.5m
C40HH-20SB-XBE				●	●						2m
C40HH-30SB-XBE				●	●						3m
C40HH-05SB-XBE				●							0.5m
C40HH-10SB-XBE				●							1m
C40HH-15SB-XBE				●							1.5m
C40HH-20SB-XBE				●							2m
C40HH-30SB-XBE				●							3m

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* Service will update sequentially in 2022~2023.



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 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.



- According to The WEEE Directive, please do not discard the device with your household waste.



www.ls-electric.com

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