Galaxy VX

Bypass Inductor Cabinet 480 V

Installation

GVXINDUCASSY

Latest updates are available on the Schneider Electric website

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UL (480 V)



https://www.productinfo.schneider-electric.com/galaxyvx_ul/

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This online manual portal is available on all devices and offers digital pages, search functionality across the different documents in the portal, and PDF download for offline use.

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Important Safety Instructions — SAVE THESE INSTRUCTIONS

Read these instructions carefully and look at the equipment to become familiar with it before trying to install, operate, service or maintain it. The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of this symbol to a "Danger" or "Warning" safety message indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages with this symbol to avoid possible injury or death.

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

Failure to follow these instructions will result in death or serious injury.

WARNING indicates a hazardous situation which, if not avoided, **could result** in death or serious injury.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

CAUTION indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

Failure to follow these instructions can result in injury or equipment damage.

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message.

Failure to follow these instructions can result in equipment damage.

Please Note

Electrical equipment should only be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction, installation, and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Safety Precautions

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All safety instructions in this document must be read, understood and followed.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Read all instructions in the Installation Manual before installing or working on this UPS system.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not install the UPS system until all construction work has been completed and the installation room has been cleaned.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- The product must be installed according to the specifications and requirements as defined by Schneider Electric. It concerns in particular the external and internal protections (upstream breakers, battery breakers, cabling, etc.) and environmental requirements. No responsibility is assumed by Schneider Electric if these requirements are not respected.
- After the UPS system has been electrically wired, do not start up the system. Start-up must only be performed by Schneider Electric.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The UPS system must be installed according to local and national regulations. Install the UPS according to:

- IEC 60364 (including 60364–4–41- protection against electric shock, 60364– 4–42 - protection against thermal effect, and 60364–4–43 - protection against overcurrent), or
- NEC NFPA 70, or
- Canadian Electrical Code (C22.1, Part 1)

depending on which one of the standards apply in your local area.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Install the UPS system in a temperature controlled indoor environment free of conductive contaminants and humidity.
- Install the UPS system on a non-flammable, level and solid surface (e.g. concrete) that can support the weight of the system.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

The UPS is not designed for and must therefore not be installed in the following unusual operating environments:

- · Damaging fumes
- Explosive mixtures of dust or gases, corrosive gases, or conductive or radiant heat from other sources
- Moisture, abrasive dust, steam or in an excessively damp environment
- Fungus, insects, vermin
- · Salt-laden air or contaminated cooling refrigerant
- Pollution degree higher than 2 according to IEC 60664-1
- Exposure to abnormal vibrations, shocks, and tilting
- Exposure to direct sunlight, heat sources, or strong electromagnetic fields

Failure to follow these instructions will result in death or serious injury.

ADANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not drill or cut holes for cables or conduits with the gland plates installed and do not drill or cut holes in close proximity to the UPS.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not make mechanical changes to the product (including removal of cabinet parts or drilling/cutting of holes) that are not described in the Installation Manual.

Failure to follow these instructions will result in death or serious injury.

NOTICE

RISK OF OVERHEATING

Respect the space requirements around the UPS system and do not cover the product's ventilation openings when the UPS system is in operation.

Failure to follow these instructions can result in equipment damage.

NOTICE

RISK OF EQUIPMENT DAMAGE

Do not connect the UPS output to regenerative load systems including photovoltaic systems and speed drives.

Failure to follow these instructions can result in equipment damage.

Additional Safety Precautions After Installation

A A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not install the UPS system until all construction work has been completed and the installation room has been cleaned. If additional construction work is needed in the installation room after this product has been installed, turn off the product and cover the product with the protective packaging bag the product was delivered in.

Failure to follow these instructions will result in death or serious injury.

Electrical Safety

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Electrical equipment must be installed, operated, serviced, and maintained only by qualified personnel.
- The UPS system must be installed in a room with restricted access (qualified personnel only).
- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices.
- Turn off all power supplying the UPS system before working on or inside the equipment.
- Before working on the UPS system, check for hazardous voltage between all terminals including the protective earth.
- The UPS contains an internal energy source. Hazardous voltage can be present even when disconnected from the utility/mains supply. Before installing or servicing the UPS system, ensure that the units are OFF and that utility/mains and batteries are disconnected. Wait five minutes before opening the UPS to allow the capacitors to discharge.
- A disconnection device (e.g. disconnection circuit breaker or switch) must be installed to enable isolation of the system from upstream power sources in accordance with local regulations. This disconnection device must be easily accessible and visible.
- The UPS must be properly earthed/grounded and due to a high leakage current, the earthing/grounding conductor must be connected first.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Risk of voltage backfeed. Before working on this circuit: Isolate the UPS and check for hazardous voltage between all terminals including the protective earth.

Failure to follow these instructions will result in death or serious injury.

Specifications

NOTICE

HAZARD OF EQUIPMENT DAMAGE

Refer to the UPS installation manual for detailed specifications for the UPS system.

Failure to follow these instructions can result in equipment damage.

Input Specifications

Rating(kW)	1000	1100	1250
Voltage (V)	480 V		
Connections	L1, L2, L3 + G ¹		
Input voltage range (V)	408-576		
Frequency (Hz)	40-70		
Nominal input current (A)	1266	1393	1583
Maximum input current (A) ²	1456	1602	1820
Input current limitation (A)	1520	1672	1900
Maximum short circuit rating	65 kA at 480 V (when protected with upstream breaker of rating as recommended in the UPS installation manual)		
Heat dissipation (BTU/Hr)	5971		

Torque Specifications

Bolt size	Torque
M6	5 Nm (3.69 lb-ft)
M8	17.5 Nm (12.91 lb-ft)
M10	30 Nm (22 lb-ft)
M12	50 Nm (36.87 lb-ft)

Environment

	Operating	Storage
Temperature	0 °C to 35 °C (32 °F to 99 °F)	-25 °C to 55°C (-13 °F to 131 °F)
Relative humidity	0-95% non-condensing	0-95% non-condensing
Altitude derating according to ANSI C57.96– 1999	3000 m (10000 ft): 0.900	0-15000 m (0-50000 ft)
Protection class	IP20	
Color	RAL 9003 white	

^{1.} WYE source - solid grounded and high resistance grounded sources are supported. Corner (line) grounding is not supported.

^{2.} At nominal input voltage and full charge.

Weights and Dimensions

Commercial reference	Weight kg (lbs)	Height mm (in)	Width mm (in)	Depth mm (in)
GVXINDUCASSY	900 (1984)	1970 (77.6)	800 (31.5)	900 (35.4)

Clearance

NOTE: Clearance dimensions are published for airflow and service access only. Consult with the local safety codes and standards for additional requirements in your local area.

NOTICE

Rear access is required during the installation of the bypass inductor cabinet and the I/O cabinet. If rear access is not available, the installation of busbars and interconnection of the cabinets must be finished before pushing the cabinets into the final position.

Failure to follow these instructions can result in equipment damage.



Introduction

Overview of Configurations

NOTE: The bypass inductor cabinet must be used with a UPS in single mains systems only.

NOTE: Depending on your chosen configuration, the backfeed breaker BF2 (marked with * in the illustration) can be preinstalled in the UPS, delivered as an optional backfeed kit GVXOPT001 to be installed in the UPS, or installed upstream of the UPS in the switchgear.



Installation Kits Shipped inside the Frame

Installation Kit 0H-9658

Part	Used in	Number of Units
Angle for right side of the rear anchoring bracket 870- 66649	Mount the Rear Anchoring Brackets, page 23	1
M8 x 25 hexagonal torx with washer		3
Rear anchoring angle 0M-816922		1 ۲ <u>۰۰۰ ۲۰۰۰ ۲۰۰</u>
Top baying cover 0M-95514	Position the Cabinets, page 25	1

Part	Used in	Number of Units
M6 x 16 torx screw with washer		13
Front anchoring angle 0M-816915	Final Installation Steps, page 38	1 <u></u>
M8 x 20 hexagonal torx with washer		6

Installation Kit 0H-1911

Part	Used in	Number of Units
Flexible busbar for L3 bypass connection 0M-95767	Save for the field service representative. They will be used for busbars connection and will be installed by Schneider Electric during assembly service.	1
Flexible busbar for L2 bypass connection 0M-95769		1
Flexible busbar for L1 bypass connection 0M-95768		1
Flexible busbar for L3-1 input connection 0M-95772		1
Flexible busbar for L2-1 input connection 0M-95776		
Flexible busbar for L1-3 input connection 0M-95773		1
Flexible busbar for L1-1 input connection 0M-95774		1
Flexible busbar for L3-2 input connection 0M-95770		1
Flexible busbar for L2-2 input connection 0M-95775		1
Flexible busbar for L1-2 input connection 0M-95771		1

Part	Used in	Number of Units
Ground interconnection busbar 880-63551	Save for the field service representative. They will be used for busbars connection and will be installed by Schneider Electric during assembly service.	1
Ground interconnection busbar 880-63552		1
Insulator support 850-10211		1
Insulator busbar shroud 850-10213		3
Insulator busbar shroud 850-10214		1
Insulator busbar shroud 850-10215		3
Insulator support 850-4763		1
Insulator support 850-4764		1 5
Insulator support 850-4767		1
M6 nut with washer 803-5022		18
M10 x 55 hexagonal bolt with washer 803-9782		64
Edge gasket 850-87860		1

Part	Used in	Number of Units
M10 nut with washer 803-1005	Save for the field service representative. They will be used for busbars connection and will be installed by Schneider Electric during assembly service.	72
M10 x 40 hexagonal torx with washer 803-8589		16
M6 x 35 hexagonal bolt 803-6440		8
M6 conical washer 21234606		8
Insulation separator 850-10263		6
Insulation support 850-10247		2)]]]]
Insulation support 850-10248		2
Bracket 870-67379		2
Bracket 870-67380		2
M8 X 25 Hexagonal torx with washer		8
Self lock cable tie TME09622		25

Installation Procedure



- 1. Remove the Cabinets from the Pallet, page 18.
- 2. Mount the Rear Anchoring Brackets, page 23.
- 3. Position the Cabinets, page 25.
- 4. Prepare the I/O Cabinet for Internal Busbar Connection, page 32.
- 5. Busbars will be connected by Schneider Electric during the assembly service.
- 6. Prepare the I/O and Bypass Inductor Cabinet for Power Cables, page 34.
- 7. Connect the Power Cables, page 36.
- 8. Final Installation Steps, page 38.
- 9. Follow the UPS installation manual to connect the output cables and DC cables in the I/O cabinet. Follow the procedure for a 480 V UPS system. Note that input cables and G are connected in the bypass inductor cabinet.
- 10. Follow the UPS installation manual to complete the rest of the installation of the UPS system.

Remove the Cabinets from the Pallet

HAZARD OF TILTING

Do not use a jack in the front and rear transport bracket at the same time.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

AWARNING

HAZARD OF SERIOUS INJURY

Do not put your hands or feet under the cabinet while removing the pallet parts.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

NOTICE

RISK OF EQUIPMENT DAMAGE

Ensure that you have sufficient free space around the cabinets for the removal of the middle pallet part. The I/O cabinet requires 1.5 m (59 in) free space on the right or left side of the cabinet.

Failure to follow these instructions can result in equipment damage.

NOTICE

RISK OF EQUIPMENT DAMAGE

Ensure that the floor is level and can support the weight of the jack when it carries the cabinet.

Failure to follow these instructions can result in equipment damage.

NOTICE

RISK OF EQUIPMENT DAMAGE

Be careful not to damage the cabinets when using the jack.

Failure to follow these instructions can result in equipment damage.

NOTE: The illustrations show the removal of the bypass inductor cabinet/ power cabinet when the procedures are identical.

1. Use the installation kit 0M-816661 shipped with the I/O cabinet. Use the jack and the floor protection plate in the kit for all cabinets in this procedure.

2. Place the floor protection plate under the pallet on the rear of the cabinet.

Rear View of the I/O Cabinet

Rear View of the Power Cabinet or the Bypass Inductor Cabinet



- 3. Place the jack from the installation kit in the hole in the transport bracket on the rear of the cabinet.
- 4. Remove the bolts from the rear transport bracket and from the middle pallet part. Remove the pallet parts marked with * and save for step 8.



Rear View of the Power Cabinet or the Bypass Inductor Cabinet

5. Use a drilling machine with the provided hexagonal socket to activate the jack, slide it into position in the bracket, and to make contact with the floor protection plate.

NOTE: Reduce the drill torque to minimum to prevent kickback.

6. Use the jack to lift the pallet to the top position.

7. Remove the rear and middle pallet parts and save the part marked with * for step 8.

Rear View of the I/O Cabinet

Rear View of the Power Cabinet or the Bypass Inductor Cabinet





- 8. Place supports under the metal bracket:
 - For the power cabinets and the bypass inductor cabinet, place the pallet parts from step 4 and 7 under the transportation bracket.
 - For the I/O cabinet, place the pallet parts from step 4 under the transportation bracket.

Rear View of the I/O Cabinet

Rear View of the Power Cabinet or the Bypass Inductor Cabinet





9. Use the drilling machine on the jack to lower the cabinet down onto the support.

10. Move the floor protection plate and the jack to the transport bracket on the front of the cabinet.



11. Remove the bolts from the front transport bracket.

Front View of the Power Cabinet or the Bypass Inductor Cabinet



- 12. Use the jack to lift the pallet to the top position.
- 13. Remove the front pallet parts.



14. Use the jack to lower the cabinet onto the floor until the casters connect with the floor. Remove the jack and the floor protection plate.

15. Wheel the cabinet away and remove the remaining pallet parts.

AWARNING

HAZARD OF TILTING

Be alert to uneven floors and doorsteps when moving the cabinet on its casters to avoid overbalancing and tipping the cabinet.



16. Remove the front and rear transportation brackets.

The cabinet can now be moved on the built-in casters to the installation area.

NOTE: Save the transportation brackets and bolts for later. The transportation bracket is reused as front anchoring bracket.

Mount the Rear Anchoring Brackets

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Leave the UPS system covered while making anchoring holes to prevent dust or other conductive particles from entering the system.

Failure to follow these instructions will result in death or serious injury.

AWARNING

HAZARD OF TILTING

All rear anchoring brackets must be installed.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

1. Use the installation kit 0H-9658 shipped with the bypass inductor cabinet. Fasten the angle to the right side of the rear anchoring bracket for the bypass inductor cabinet. Note the direction of the plate.



2. Place the rear anchoring brackets for the bypass inductor cabinet, the I/O cabinet, and the power cabinets in the final installation area.



- 3. Interconnect the rear anchoring brackets using the provided screws and bolts.
- 4. Mark the hole locations.
- 5. Drill anchoring holes according to the national and local requirements.
- 6. Mount the rear anchoring brackets to the floor. Bolts are not supplied.
- 7. Use a bubble-leveler to ensure that the rear anchoring brackets are level. Use the provided leveling shims if necessary.

Position the Cabinets

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not step/walk on top of the cabinets.

Failure to follow these instructions will result in death or serious injury.

NOTE: Rear access is required for interconnection of busbars between the bypass inductor cabinet and the I/O cabinet. If rear access is not available, complete the procedure described in before pushing the cabinets into the final position (Step 5-8).

1. Open the front door of the bypass inductor cabinet. Remove the front covers, the rear cover, and the plastic covers from the two cutouts on the right side.

Front View of the Bypass Inductor Cabinet



2. Remove the rear covers from the I/O cabinet.

Front View of the I/O Cabinet



3. Open the front doors and the three inner doors of the I/O cabinet.



Front View of the Bypass Inductor Cabinet and the I/O Cabinet

4. Remove the two rear bottom plates from the I/O cabinet.

Front View of the I/O Cabinet



NOTE: Rear access is required for interconnection of busbars between the bypass inductor cabinet and the I/O cabinet. If rear access is not available, complete the procedure described in before pushing the cabinets into the final position (Step 5-8).

5. Push the bypass inductor cabinet into position against the rear anchoring bracket – the cabinet will connect to the conic outcroppings on the rear anchoring bracket.

Front View of the Bypass Inductor Cabinet



- 6. Fasten the bypass inductor cabinet to the rear anchoring bracket by tightening the bolts on the front of the bypass inductor cabinet. Torque to 50 Nm (36.87 lb-ft).
- 7. Push the I/O cabinet into position against the rear anchoring bracket the I/O cabinet will connect to the conic outcroppings on the rear anchoring bracket.

Front View of the I/O Cabinet



- 8. Fasten the I/O cabinet to the rear anchoring bracket by tightening the bolts on the rear inside of the I/O cabinet. Torque to 50 Nm (36.87 lb-ft).
- 9. Reinstall the two rear bottom plates in the I/O cabinet.
- 10. Push the power cabinets one by one into position against the rear anchoring brackets the cabinets will connect to the conic outcroppings on the brackets.

RISK OF EQUIPMENT DAMAGE

When pushing the power cabinet into position, push on the frame to avoid damaging the signal cables.

Failure to follow these instructions can result in injury or equipment damage.



- 11. Fasten the power cabinets to the rear anchoring brackets by tightening the bolts on the front of the power cabinets. Torque to 50 Nm (36.87 lb-ft).
- 12. Lower the two front feet on all cabinets until they connect with the floor use a bubble-leveler to ensure that the cabinets are level. Use the provided levelling shims if necessary.
- 13. Install the top baying bracket from the installation kit 0H-9658 on the top of the bypass inductor cabinet and the I/O cabinet.



Front View of the Bypass Inductor Cabinet and the I/O Cabinet

14. Mount the M6 screws from the installation kit 0H-9658 from right to left in the marked positions between the I/O cabinet and the bypass inductor cabinet.



From I/O Cabinet to Bypass Inductor Cabinet

- Position the Cabinets
- 15. Mount the M6 screws from the installation kit 0H-9658 from right to left in the five marked positions between the power cabinets and in the four marked positions between the power cabinet and the I/O cabinet to interconnect the cabinets.

From Power Cabinet to Power Cabinet

From Power Cabinet to I/O Cabinet



Prepare the I/O Cabinet for Internal Busbar Connection

1. If present, cut away the highlighted part.

Rear View of the I/O Cabinet and Bypass Inductor Cabinet



2. Drill eight holes for mounting the insulation support brackets in the marked positions on the frame of the I/O cabinet. The hole diameter is ø7.5 mm.

6 Ð ť 6 ß 0 0 6 6 ß 鑩 ₿ 925mm 6 € 6 8.5mm Ø 6 6 9 0 0 <u></u> 6 ⁷5mm ø7.5 mm 6 6 0 0 500mm 0 Æ 0 0 0 0 କ ß 0 0 R ø7.5 mm 1 75mm 9 ¢ 6 6 G 0 🖗 8.5mm Ű

Rear View of the I/O Cabinet and Bypass Inductor Cabinet

NOTE: Busbars will be connected by Schneider Electric during the assembly service.

Prepare the I/O and Bypass Inductor Cabinet for Power Cables

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Do not drill/punch holes for cables or conduits with the gland plates installed and do not drill/punch holes in close proximity to the UPS.

Failure to follow these instructions will result in death or serious injury.

1. Loosen the bolts and remove the gland plates from the top of the bypass inductor cabinet and the I/O cabinet.

Top View of the Bypass Inductor Cabinet and the I/O Cabinet



2. Drill or cut holes for cables/conduits in the top gland plates.

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

Ensure that there are no sharp edges that can damage the cables.

Failure to follow these instructions will result in death or serious injury.

Top View of the Bypass Inductor Cabinet and the I/O Cabinet



- A. For bypass cables (not required)
- B. For DC cables
- C. For output cables
- D. For input cables (not required)
- E. For cables to the external supply for Lithium-ion
- F. For input cables
- 3. Install conduits and reinstall the top gland plates.

Connect the Power Cables

For 4-wire systems:

- Bonding jumper: Not connected
- Technical/system earth: No local grounding electrode connected
- For 3-wire systems:
 - Bonding jumper: Must be connected
 - Technical/system earth: A grounding electrode must be connected via the grounding electrode conductor.
 - 1. Only applicable to high impedance grounding systems:



- a. Remove the jumper cable between the ground busbar and the E terminal.
- b. Connect an external impedance between the ground busbar and E terminal according to NEC 2014 article 250.36.

I/O Cabinet

2. Connect the equipment grounding conductor(EGC)/G to the ground busbar.



Front View of the Bypass Inductor Cabinet and the I/O Cabinet

- 3. Connect the input cables.
- 4. Connect the output cables.
- 5. Connect the DC cables to the battery+ and battery- busbars.

Final Installation Steps

A A DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

All panels and covers must be properly reinstalled prior to energizing the UPS.

Failure to follow these instructions will result in death or serious injury.

HAZARD OF ARC FLASH

- Do not make mechanical changes to the product (including removal of cabinet parts or drilling/cutting of holes) that are not described in the installation manual.
- The side panels of each individual cabinet must be installed in all installation types (including parallel installations with no air gap between the frames or in installations where the right-most cabinet and/or the left-most cabinet is placed against a wall). When the bypass inductor cabinet and the I/O cabinet are bayed together they will be considered as one cabinet and must have side panels installed on the left side and the right side.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

1. Close the inner doors of the I/O cabinet and fasten the screws. Reinstall the front covers and the rear covers of the cabinets.





2. Fasten the front anchoring brackets to the front of the cabinets.

- Mount the front anchoring brackets to the floor.
 NOTE: Floor anchoring bolts are not provided.
- 4. Follow the UPS installation manual to complete the installation of the power cabinets and the I/O cabinet.

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As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

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