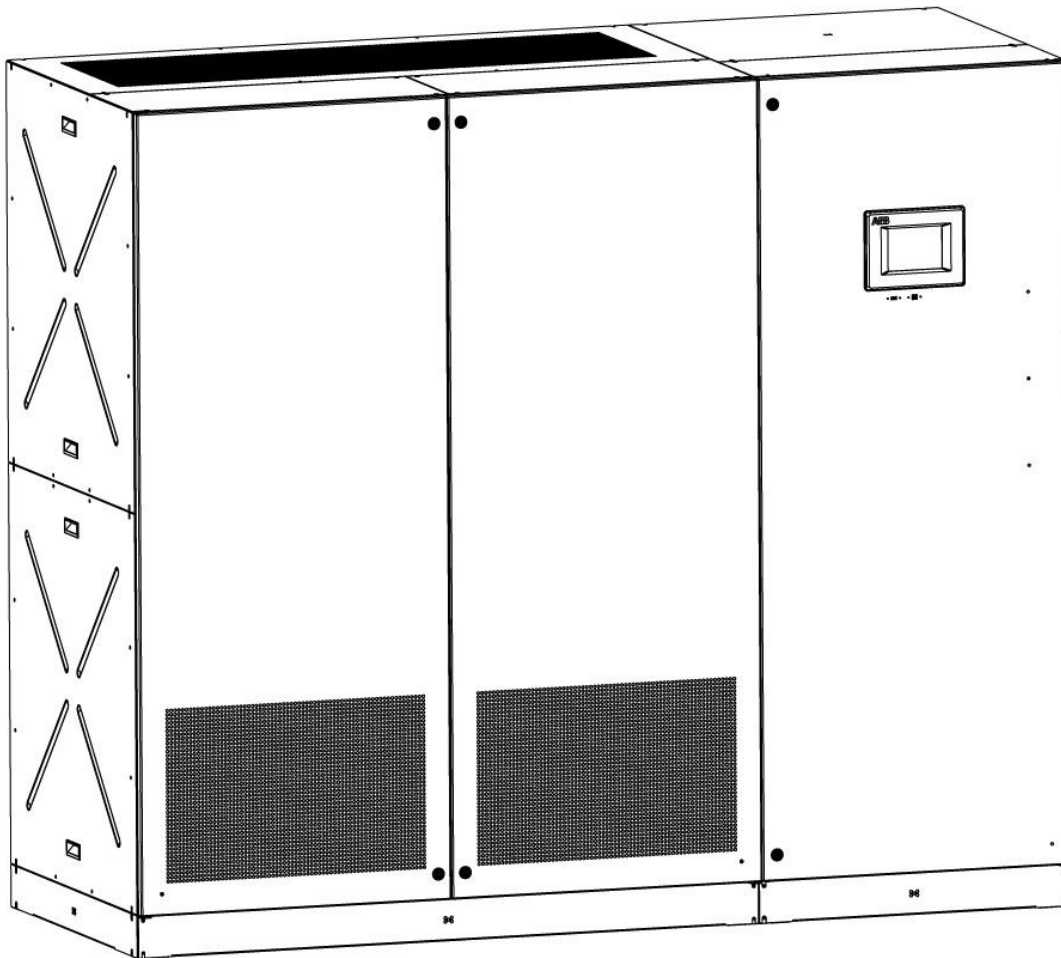


94-1100-00002878 B

INSTALLATION GUIDE

TruFit™ Power Distribution Unit 750/850/950 kVA



TruFit™ PDU
750/850/950 kVA

Dear Customer,

We thank you for selecting our products and are pleased to count you amongst our very valued customers at **ABB**.

We trust that the use of the **TruFit™ Power Distribution Unit**, developed and produced to the highest standards of quality, will give you complete satisfaction.

Please carefully read the Installation Guide, which contains all the necessary information and describes all you need to know about the installation of the PDU.

Thank you for choosing **ABB**!



Start-up and commissioning!

An ABB Global Services Field Engineer must perform start-up and commissioning of the PDU.

Please contact ABB Service Center at least two weeks prior to schedule start-up and commissioning at 1-800-292-3739.

The Company

We are an established world force in the design and manufacture of power electronics and power protection equipment.

As a part of ABB, a world leader in electrical technology, we offer customers application expertise, service, and support worldwide. We are committed to teamwork, high quality manufacturing, advanced technology and unrivalled service and support.

The quality, accuracy and performance of ABB's products result from over 100 years of experience, combined with a continuous program of innovative design and development to incorporate the latest technology.

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Quality control

To ensure that we meet our responsibilities and obligations to our customers, our people, our partners, our suppliers and to our shareholders, we are committed to deliver on-time and on-quality products, systems and services that meet or exceed our customers' expectations.

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For more information

Further publications for the TruFit™ Power Distribution Unit and accessories are available for download from <http://new.abb.com/PDU/power-distribution> or by scanning the QR code below.



Contacting ABB for support

To contact ABB for general information, call 800-637-1738. For preventative and remedial services in the United States, call 800-292-3739. ABB offers a complete range of start-up services, repair services, preventive maintenance plans and service contracts.

For repair or maintenance service outside the 48 contiguous United States, contact ABB, if available in your area. Please provide the following information for customer service when you contact the ABB service center:

Equipment
Part number
Serial number
Voltage rating
Current rating
Purchase date
Installation date
Location

To get important information on all equipment warranties, please contact the ABB service center or request service follow-up or by scanning the QR code below.



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1 Important safety instructions

1.1 Using this manual

TruFit™ Power Distribution Unit, henceforth referred as PDU, is a high-energy device. The following safety instructions must be observed when working with the device. Refer to the unit's nameplate for the specific model designation and operating parameters.

This manual is provided to aid the user in the installation, operation, and maintenance of the PDU, manufactured by ABB. Read and understand the procedures described to ensure trouble-free installation and operation. Read through each procedure before beginning the procedure. Perform only those procedures that apply to the PDU cabinet being installed or operated.

This unit is equipped with ABB's PowerView monitoring system. Instructions regarding monitoring can be found in manual 94-1100-00002861. The reader is expected to know the fundamentals of electricity, wiring, electrical components, and electrical schematic symbols.

Read all safety and operating instructions before operating the PDU. Adhere to all warnings on the unit and in this manual.

1.1.1 List of symbols

These symbols may appear on your PDU or on labels inside the PDU. Most international safety agents accept them. Everyone in your organization who works with your system should understand the meaning of these symbols:

	SAFETY ALERT SYMBOL This is the safety alert symbol. It is used to alert you to potential physical injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	DANGER Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	WARNING Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	CAUTION Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
	NOTICE Is used to address situations not related to physical injury but could result in property damage.
	ELECTRICAL HAZARD SYMBOL Indicates the presence of an electrical hazard.

	ARC FLASH HAZARD SYMBOL Indicates the presence of an arc flash hazard.
	IMPORTANT INFORMATION SYMBOL This symbol indicates operator tips and/or important information for the use of the product. This symbol is not used to indicate information regarding potential hazards or property damage.
	RECYCLE SYMBOL
	DO NOT DISCARD SYMBOL Indicates that you should not discard waste electrical or electronic equipment (WEEE) in the trash. For proper disposal, contact your local recycling/reuse or hazardous waste center.

1.2 Safety rules

Save these instructions!

The PDU operates with high currents and voltages. The properly installed system is grounded to earth and IP 20 rated against electrical shock and foreign objects when all dead fronts are in place. Installation and service must be performed by a manufacturer's qualified technicians or a certified service partner.

General

- Move the PDU in an upright position in its original package to the final destination room.
To lift the cabinets, use a forklift or lifting belts with spreader bars.
- Check for sufficient floor and elevator loading capacity.
- Check the integrity of the PDU equipment carefully.
If you notice visible damage, do not install or start the PDU.
Contact your ABB Service Center immediately.
- **WARNING! RISK OF ELECTRICAL SHOCK!**
Do not remove covers, there are no user serviceable parts inside.
This should be performed by qualified service personnel.
- This PDU contains potentially hazardous voltages.
- End user must follow applicable regional occupational safety codes/regulations during installation, operation, and equipment maintenance. This may require additional field marking or labelling defining appropriate level of PPE (Personal Protection Equipment) to reduce the risk of Arc-flash related injuries.
Contact our ABB Service Center for product specific information.

Installation

- This PDU must be installed and connected only by trained personnel.
- During installation, prevent damage to components, wires and cables, and the introduction of foreign debris into the equipment.
- After removing the sidewalls of the PDU, make sure that all earth connections when reassembling, are correctly reattached.
- This PDU is intended for use in a controlled indoor environment free of conductive contaminants and protected against animal intrusion.
- **WARNING! HIGH LEAKAGE CURRENT TO GROUND:**
Ground connection is essential before connecting to AC input!
- Switching OFF the unit does not isolate the PDU from the utility.
- Do not install the PDU in an excessively humid environment or near water.
- Avoid spilling liquids on or dropping any foreign object into the PDU.
- The unit must be placed in a sufficiently ventilated area; the ambient temperature should not exceed 104°F (40°C).
- It is important that air can move freely around and through the unit. Do not block the air vents.
- Avoid locations in direct sunlight or near heat sources.
- Removeable conduit entry panels are provided and should be removed from the PDU prior to drilling/punching any holes.

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