

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB SR511 3BSE000863R1

Product Reference

ABB SR511 24 V DC to 5 V DC/DC Regulator

DOCUMENT SCOPE

Independent Apter Power manual compiled only from the cited ABB manufacturer sources. No product photograph is included.

Product / lookup identity	ABB SR511 3BSE000863R1
Reference number	3BSE000863R1
Document basis	Published ABB product records, PDFs, and manuals listed on page 3



Product page

<https://www.apterpower.com/ABB/sr511-3bse000863r1>
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Product role and published parameters

WHAT IT IS, WHAT IT DOES, AND WHERE IT FITS

ABB SR511, product ID 3BSE000863R1, is a 310 W DC/DC voltage regulator that ABB identifies as converting 24 V DC to 5 V DC for Advant Controller installations. Its system role is to provide the regulated 5 V controller-electronics supply within a documented AC450 or AC460 power arrangement. System context: ABB SR511 24 V DC to 5 V DC/DC Regulator.

Published field	Manufacturer-published value or verified identity note
Manufacturer	ABB
Model	SR511
Base product ID	3BSE000863R1
Product type	DC/DC voltage regulator
Published input	24 V DC
Published output	5 V DC
Published power rating	310 W

System function and signal path

01	Power Input: 24 V DC, as stated by ABB for the exact SR511 article.
02	Power Output: 5 V DC, with a published 310 W unit rating.
03	System Function: Provides the controller-electronics DC/DC regulator position in the documented AC450/AC460 power system; AC450 permits a two-regulator redundant arrangement.
04	Process Signals: None documented. SR511 is not an analog-input, analog-output, digital-input, digital-output, counter, communication, or measurement module.

Applications, answers, and official sources

1 AC450 controller power regulation: Converts the documented 24 V DC source to the 5 V DC controller supply in an ABB AC450 cabinet.

2 Dual-regulator AC450 power arrangement: Supports the two-SR511 dual-redundant option only when the exact ABB cabinet drawings define the pairing, distribution, and monitoring.

3 AC460 installed-base power subsystem: Occupies the SR511 regulator position in AC460 systems that explicitly list 3BSE000863R1 in the bill of materials.

4 Legacy process-control cabinet infrastructure: Provides regulated controller electronics power in established industrial process-control systems without acquiring or processing field signals.

Frequently asked questions

What is ABB SR511 3BSE000863R1?	ABB identifies it as a 310 W regulator that converts 24 V DC to 5 V DC for Advant Controller systems.
What is the canonical ABB product ID?	The verified base product ID is 3BSE000863R1.
What does P3BSE000863R1 mean?	ABB's official brochure classifies P3BSE000863R1 as a POP PRE-OWNED SR511 code. It is a condition/supply code, not a separate electrical revision.
Is 3BSE000863R0001 a verified ABB alias?	No exact ABB source located in this research confirms that long-form code. A nameplate or ABB order record is required before publishing it as an alias.
Which systems officially list SR511?	ABB's 2025 parts notice lists SR511 for both AC450 and AC460, while the AC450 data sheet documents SR511 as a voltage-regulator option.
Can SR511 be used redundantly?	ABB's AC450 data sheet permits two SR511 regulators and states they can be combined for dual redundancy. The exact system wiring must still be verified.

Official ABB sources

ABB Advant Controller 450 Classic lifecycle promotion	https://library.e.abb.com/public/7899acc63a7e4fc08af4b7812d8eda57/Advant_Classic.pdf
ABB Advant Master AC450 and Advant MOD 300 AC460 Limited-phase spare-parts notice	https://library.e.abb.com/public/65fd01d9592c4ac09ff7f4b88c67adc7/ADVANT%20Master%20AC%20450%20-%20ADVANT%20MOD%20300%20AC%20460%20Limited%204HZG000081%20A.pdf
ABB Triple Play spare-parts brochure	https://library.e.abb.com/public/ce7ff1c4bdac451085597330b9fba063/9AKK107046A2102%20C%20Triple%20play%20brochure.pdf
ABB Advant Controller 450 product data	https://library.e.abb.com/public/67c5367296a54be7b84a4b67310b0165/3BSE004512R501_A_en_Advant_Controller_450_v_231.pdf