

MANUFACTURER-SOURCE TECHNICAL REFERENCE

ABB SR511 3BSE000863R1

SR511 Power-System Identity and Installation Guide

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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24 V-to-5 V controller-power verification path

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.

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.
05	Processing: Power conversion/regulation only. No PLC program execution, protocol conversion, field measurement, or control algorithm is published for SR511.

AC450/AC460 power-system and lifecycle boundaries

01	Verification Status: BASE_PRODUCT_AND_PRE_OWNED_CONDITION_CODE_VERIFIED_FROM_ABB; R0001_LONG_FORM_NOT_VERIFIED
02	Exact Mapping: ABB maps 3BSE000863R1 to SR511 and describes it as an SR511 regulator, 24 V/5 V DC/DC, 310 W. ABB also lists P3BSE000863R1 as a POP PRE-OWNED SR511 regulator; the P prefix therefore identifies a pre-owned commercial condition code, not the new base product ID.
03	Lifecycle Status: Limited for the Advant Master AC450 / Advant MOD 300 AC460 product line, effective 2025-07-01. ABB states that new modules will no longer be manufactured and parts/services remain available on a best-practical-effort basis. An older ABB promotion labels AC450 Classic; the dated 2025 Limited-phase notice is the controlling current lifecycle source.

SR511 identity, isolation, and redundancy checks

01	Verify SR511 and 3BSE000863R1 on the physical ABB label and project bill of materials before removal, installation, or supply.
02	Do not treat P3BSE000863R1 as a new-unit part number; ABB identifies it as POP PRE-OWNED.
03	Do not list 3BSE000863R0001 as a confirmed alias until ABB nameplate or order evidence verifies the relationship.
04	Isolate, lock out, and prove de-energized every associated source and load before handling the regulator or its conductors.
05	Use the exact ABB/project drawings for terminal identity, polarity, wire size, fusing, grounding, backplane position, airflow, and redundancy wiring.
06	Do not calculate or publish a 5 V output-current rating from 310 W; ABB does not state the applicable conversion conditions in the cited public sources.

Identity and release controls

Verification Status	BASE_PRODUCT_AND_PRE_OWNED_CONDITION_CODE_VERIFIED_FROM_ABB; R0001_LONG_FORM_NOT_VERIFIED
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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