

ABB AO650 3BHT300051R1

Analog Output Module / Product dashboard

Release requires a witnessed command-versus-measurement record for every connected output.

IDENTITY

ABB AO650 3BHT300051R1

PRODUCT ROLE

Analog Output Module

PLATFORM

S600 I/O

CONTROL BASIS

Exact evidence plus installed-system record

Manufacturer product ID	3BHT300051R1
ABB type designation	AO650
Output channels	8
Resolution	12 bit
Isolation	Each channel optically isolated
Current ranges	0-20 mA; 4-20 mA; +/-20 mA

The dashboard places AO650 3BHT300051R1 identity, operating role and maintenance boundaries in one review surface for the S600 I/O installation.

Dashboard boundary

This overview supports identification and maintenance planning; it does not declare compatibility with a neighboring model or approve a redesign.

ABB AO650 3BHT300051R1

Analog Output Module / Technical matrix

Manufacturer product ID	3BHT300051R1
ABB type designation	AO650
Output channels	8
Resolution	12 bit
Isolation	Each channel optically isolated
Current ranges	0-20 mA; 4-20 mA; +/-20 mA
Voltage ranges	0-5 V; 0-10 V; 1-5 V; +/-10 V
System	S600 I/O

DATA USE

Values support exact-model identification and configuration review.

LIMIT CONTROL

Electrical, software and loading limits remain subject to the installed design.

RECORD SOURCE

ABB AO650 Exact Product Record and Advant Controller 110 Overview

REVISION NOTE

3BHT300051R1 / 3BDD 010 003R0003

ABB AO650 3BHT300051R1

Analog Output Module / Application architecture

Isolated current-loop commands

Drives eight documented actuator loops with per-channel separation.

Voltage reference outputs

Provides configured voltage commands to compatible field devices.

Mixed-range output stations

Allows range selection by channel within the approved station design.

Like-for-like module service

Restores the AO650 role while preserving terminal and range assignments.

Input to decision	Exact label plus manufacturer evidence
Installed context	Rack, terminal, network, project and connected process
Change control	Approved scope and retained configuration baseline
Proof	Diagnostic state plus witnessed functional result

Within the S600 I/O context, AO650 3BHT300051R1 must be reviewed together with its assigned project data, field interfaces and the maintenance acceptance record.

ABB AO650 3BHT300051R1

Analog Output Module / Risk and decision register

PRIMARY RISK

A mismatch between the AO650 3BHT300051R1 label and the installed analog output module record.

CONFIGURATION RISK

Loss of the AO650 3BHT300051R1 project, mapping, wiring or interface baseline.

SELECTION RISK

Treating another S600 I/O item as automatically equivalent to AO650 3BHT300051R1.

RELEASE RISK

Returning AO650 3BHT300051R1 to control before diagnostics and functional response are witnessed.

Decision register

How many outputs does ABB AO650 3BHT300051R1 provide?

It provides eight analog output channels.

How are ABB AO650 3BHT300051R1 channels isolated?

Each output channel is optically isolated.

Which voltage ranges are documented for ABB AO650 3BHT300051R1?

The record lists 0-5 V, 0-10 V, 1-5 V and +/-10 V.

Is ABB AO610 automatically interchangeable with ABB AO650 3BHT300051R1?

No. Channel count and isolation differ, so a separate engineering review is required.

What resolution does ABB AO650 3BHT300051R1 use?

ABB specifies 12-bit output resolution.

Which current ranges are documented for ABB AO650 3BHT300051R1?

The exact product record lists 0-20 mA, 4-20 mA and +/-20 mA.

What must be saved before replacing ABB AO650 3BHT300051R1?

Retain range, scaling, terminal, load, controller address and safe-state records.

How is ABB AO650 3BHT300051R1 functionally tested?

Command controlled values and verify current or voltage at the correct terminal and field load.

Decision closeout

Approve the AO650 3BHT300051R1 decision register only when identity, configuration, diagnostics and observed process behavior tell one consistent story.

ABB AO650 3BHT300051R1

Analog Output Module / Canonical record and support

Canonical identity	ABB AO650 3BHT300051R1
Product name	Analog Output Module
Family	S600 I/O
Selection boundary	Exact identity; no neighboring-model inference
Release boundary	Installed record plus witnessed functional proof

VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

ABB CI820V1 3BSE025255R1

[View ABB CI820V1 3BSE025255R1 page](#)

ABB CI810B 3BSE020520R1

[View ABB CI810B 3BSE020520R1 page](#)

MANUFACTURER EVIDENCE RECORD

ABB AO650 Exact Product Record and Advant Controller 110 Overview

3BHT300051R1 / 3BDD 010 003R0003

CONTACT APTER POWER

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

Send the exact model, quantity, destination and requested condition for a quotation.

