TECHNICAL REFERENCE / EXACT-MODEL DOSSIER

WESTINGHOUSE 5X00273G01

High-Side Output Personality Module

WESTINGHOUSE 5X00273G01 is the personality module for an Ovation sixteen-channel 24 VDC high-side digital-output subsystem.

IDENTITY AND FUNCTION SNAPSHOT	
H1 Sixteen 24 VDC output channels	**H2** Per-channel suppression networks
H3 Field-power filtering	**H4** Redundant-mode connectors

Installed-system position

1	Ovation output command
2	5X00270G01 switching electronics
3	5X00273G01 field interface
4	24 VDC field load

Exact-model release boundary

Identity Keep WESTINGHOUSE 5X00273G01 complete in drawings, labels and acceptance records.	**Evidence** Use only the exact-model and explicitly applicable family facts documented here.
Configuration Record cables, jumpers, settings and the installed functional position before work.	**Acceptance** Prove the affected control path before returning the equipment to service.

02 / SYSTEM ROLE AND INTERFACES

Architecture, interfaces and service boundaries

WESTINGHOUSE 5X00273G01 forms the field-interface half of the Ovation HSDO module. It does not replace the 5X00270G01 switching electronics; both identities and the redundant interconnection arrangement must be checked together.

CONTROL PATH	
1	Ovation output command
2	5X00270G01 switching electronics

3	5X00273G01 field interface
4	24 VDC field load

Interface architecture

Controller boundary	Output commands received by 5X00270G01
Personality interface	Suppression, field-power filtering and output routing
Redundant boundary	Cable connector links the two personality modules
Field boundary	Sixteen 24 VDC high-side loads

Interface acceptance checks

1

Isolate 24 VDC field power before handling WESTINGHOUSE 5X00273G01.

2

Confirm the G01 personality module and 5X00270G01 electronics pairing.

3

Record all sixteen output assignments and their safe states before removal.

4

Verify the field load and inrush current remain within the approved channel design.

Engineering rule

A nearby WESTINGHOUSE family code does not establish interchangeability with 5X00273G01; use the physical nameplate and controlled site records.

ENGINEERING SUMMARY / MODEL-SPECIFIC CHECKPOINTS

- Controller boundary: Output commands received by 5X00270G01
- Personality interface: Suppression, field-power filtering and output routing
- Redundant boundary: Cable connector links the two personality modules
- Field boundary: Sixteen 24 VDC high-side loads

03 / VERIFIED TECHNICAL DATA

Engineering matrix and component map

Every populated row is a technical value supported by the reviewed exact-model record or an explicitly applicable WESTINGHOUSE family source.

Product class	High-side digital-output personality module
Platform	Ovation HSDO
Channel count	16
Field voltage	24 VDC
Per-channel current	Up to 500 mA through the paired subsystem
Paired electronics	5X00270G01
Protection function	Voltage suppression network on each channel
Redundancy interface	Connectors for redundant-mode operation
Software applicability	Windows Ovation 3.0.4 and above

CHANGE CONTROL

Record

Capture the full model, revision, slot, connectors and as-found condition.

Compare

Match every populated technical row to the replacement and project record.

Protect

Apply controlled isolation, stored-energy and ESD practices.

Prove

Complete the product-specific functional and safe-state checks.

Source applicability

Evidence record	Applicable scope
Ovation I/O Reference Manual OW350_R1150, High Side Digital Output section	Supports only the exact-model or explicitly applicable family facts used in this document.

04 / SERVICE LOGIC AND ACCEPTANCE

Fault isolation and controlled return

1	Capture the fault, indicators and surrounding-system state
2	Verify exact identity, power boundary, cabling and installed position

3	Test WESTINGHOUSE 5X00273G01 against the approved service procedure
4	Correct the isolated cause and restore the recorded configuration
5	Commission the affected path and archive measured evidence

Eight product-specific precautions

1 Isolate 24 VDC field power before handling WESTINGHOUSE 5X00273G01.	**2** Confirm the G01 personality module and 5X00270G01 electronics pairing.
3 Record all sixteen output assignments and their safe states before removal.	**4** Verify the field load and inrush current remain within the approved channel design.
5 Preserve the suppression network path; do not bypass personality-module protection.	**6** For redundant service, verify the interconnection cable and matching channel assignments.
7 Inspect field-power polarity, return paths and connector seating before energization.	**8** Test each used output from command through field response and confirm the configured failure behavior.

05 / ENGINEERING FAQ AND SUPPORT

Model-specific engineering decisions

Engineering decision	Controlled response
How many outputs are served by WESTINGHOUSE 5X00273G01?	It serves sixteen high-side digital-output channels.
Which field voltage applies to WESTINGHOUSE 5X00273G01?	The documented HSDO subsystem uses 24 VDC field power.
Which switching electronics belongs beside WESTINGHOUSE 5X00273G01?	The documented switching electronics module is 5X00270G01.
What protection does WESTINGHOUSE 5X00273G01 provide?	It provides a voltage-suppression network for each digital-output channel and filters 24 VDC field power.
What is the documented channel-current capability for the paired WESTINGHOUSE 5X00273G01 subsystem?	The HSDO electronics can source up to 500 mA per channel.
How is redundant operation supported by WESTINGHOUSE 5X00273G01?	The personality module includes connectors for the cable that links a redundant pair.
Which software context is documented for WESTINGHOUSE 5X00273G01?	The HSDO section applies to Windows Ovation 3.0.4 and later.

Engineering decision	Controlled response
How can an engineer prove WESTINGHOUSE 5X00273G01 ready for service?	Verify field power, redundancy cabling where used, every output command, field response and safe-state action.

Related Apter Power references

Related Apter Power references	Scope note
WESTINGHOUSE 1C31132G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31147G01	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31150G01	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 5X00273G01 High-Side Output Personality Module Verify the complete nameplate before installation.

ENGINEERING SUMMARY / MODEL-SPECIFIC CHECKPOINTS

- Exact model: WESTINGHOUSE 5X00273G01
- Retain nameplate, wiring and as-left acceptance evidence.
- Use only the Apter Power links contained in this document.
- Verify compatibility independently before installation.