TECHNICAL REFERENCE / EXACT-MODEL DOSSIER

WESTINGHOUSE 5X00489G01

Power Distribution Module

WESTINGHOUSE 5X00489G01 is an Ovation cabinet power-distribution module that establishes the documented main and auxiliary grounding relationship for supported I/O branches.

IDENTITY AND FUNCTION SNAPSHOT

H1 Ovation cabinet power distribution	**H2** Main grounding bar J10
H3 Auxiliary grounding bar J11	**H4** Dedicated auxiliary branch fuse

Installed-system position

1	Cabinet power source
2	5X00489G01 distribution stage
3	Main and auxiliary branches
4	Ovation I/O loads

Exact-model release boundary

Identity Keep WESTINGHOUSE 5X00489G01 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 5X00489G01 is a cabinet infrastructure module rather than a process I/O channel card. Commissioning focuses on branch protection, grounding bars and the power paths feeding locally powered inputs and relay-output bases.

CONTROL PATH

1	Cabinet power source
2	5X00489G01 distribution stage

3	Main and auxiliary branches
4	Ovation I/O loads

Interface architecture

Source boundary	Cabinet main and auxiliary DC power
Protection boundary	Branch fusing at the distribution module
Grounding boundary	J10 and J11 grounding bars referenced to earth
Load boundary	Downstream Ovation I/O and relay-output branches

Interface acceptance checks

1

Open the upstream cabinet disconnect before handling WESTINGHOUSE 5X00489G01.

2

Verify absence of voltage on both main and auxiliary paths before touching J10 or J11.

3

Photograph and label every branch conductor, fuse position and grounding bar before removal.

4

Keep Main GND and AUX GND referenced together wherever the installed I/O configuration requires it.

Engineering rule

A nearby WESTINGHOUSE family code does not establish interchangeability with 5X00489G01; use the physical nameplate and controlled site records.

ENGINEERING SUMMARY / MODEL-SPECIFIC CHECKPOINTS

- Source boundary: Cabinet main and auxiliary DC power
- Protection boundary: Branch fusing at the distribution module
- Grounding boundary: J10 and J11 grounding bars referenced to earth
- Load boundary: Downstream Ovation I/O and relay-output branches

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	Power distribution module
Platform	Ovation I/O cabinet
Main grounding point	J10
Auxiliary grounding point	J11
Grounding requirement	Main GND and AUX GND referenced together where specified
Auxiliary fuse	12.5 A; 5 x 20 mm; 250 VAC / 125 VDC; Type T
Fuse part	1X00728H01L
Full model	5X00489G01

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, cabinet fuse, PDM and grounding sections	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 5X00489G01 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 Open the upstream cabinet disconnect before handling WESTINGHOUSE 5X00489G01.	**2** Verify absence of voltage on both main and auxiliary paths before touching J10 or J11.
3 Photograph and label every branch conductor, fuse position and grounding bar before removal.	**4** Keep Main GND and AUX GND referenced together wherever the installed I/O configuration requires it.
5 Replace the auxiliary fuse only with the documented Type T rating after clearing the branch fault.	**6** Do not mix relay-output bases with branches carrying a different auxiliary voltage.
7 Torque and inspect every power and ground termination before energization.	**8** Energize branches in a controlled sequence and record voltage, fuse status, ground reference and downstream alarms.

05 / ENGINEERING FAQ AND SUPPORT

Model-specific engineering decisions

Engineering decision	Controlled response
What is WESTINGHOUSE 5X00489G01 used for?	It is the Ovation cabinet power-distribution module for main and auxiliary I/O branches.
Which point is Main GND on WESTINGHOUSE 5X00489G01?	The manual identifies J10 as the Main grounding bar.
Which point is AUX GND on WESTINGHOUSE 5X00489G01?	The manual identifies J11 as the Auxiliary grounding bar.
When must J10 and J11 be referenced together on WESTINGHOUSE 5X00489G01?	They must be referenced together for the documented locally powered analog-input and relay-output arrangements.
Which auxiliary fuse is listed for WESTINGHOUSE 5X00489G01?	The listed fuse is 12.5 A, 5 x 20 mm, 250 VAC or 125 VDC, Type T.
Which fuse part is associated with WESTINGHOUSE 5X00489G01?	The manual lists 1X00728H01L for the auxiliary fuse position.
Which cabinet details require a record before WESTINGHOUSE 5X00489G01 is removed?	Record every branch conductor, fuse position, J10/J11 link and earth connection.
Which power-distribution checks release WESTINGHOUSE 5X00489G01 for operation?	Verify branch voltages, fuse integrity, J10/J11 grounding, earth reference and all downstream cabinet alarms.

Related Apter Power references

Related Apter Power references	Scope note
WESTINGHOUSE 1C31166G02	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31169G02	Portfolio reference only; verify compatibility independently.
WESTINGHOUSE 1C31189G01	Portfolio reference only; verify compatibility independently.

	Apter Power technical support sales13@apterpower.com +86 180 3023 5313 www.apterpower.com	Model record WESTINGHOUSE 5X00489G01 Power Distribution Module Verify the complete nameplate before installation.

ENGINEERING SUMMARY / MODEL-SPECIFIC CHECKPOINTS

- Exact model: WESTINGHOUSE 5X00489G01
- Retain nameplate, wiring and as-left acceptance evidence.
- Use only the Apter Power links contained in this document.
- Verify compatibility independently before installation.