ABB AFPS-11C

Technical Reference and Engineering Data

ABB AFPS-11C is a 1 kw fan-inverter power-supply board for the ABB ACS800-67 converter module architecture. The complete marking must be matched to the installed hardware, wiring and configuration before replacement.

01 Exact identity and system role

Complete model	AFPS-11C
Product type	1 kW fan-inverter power-supply board
Manufacturer	ABB
Technical source	ABB ACS800-67 Wind Turbine Converters Hardware Manual
Drawing position	A433
Documented power class	1 kW
Converter module reference	400 kVA class documentation
Cooling load reference	Y41 fan circuit
Power-semiconductor references	V21 to V23

System position

AFPS-11C occupies drawing position A433 in the documented ACS800-67 fan circuit and supplies the associated AFIN-01C fan-inverter arrangement.

Lifecycle and installed-base context

Exact board phase	A current manufacturing or support phase for the AFPS-11C board has not been separately established.
Converter support	Support planning must use the installed ACS800-67 converter serial data, A433 board position, AFIN-01C pairing and Y41 fan circuit.
Supply boundary	Apter Power availability applies to the offered AFPS-11C board and does not establish ACS800-67 converter lifecycle status.

02 Verified technical data

Drawing position	A433
Documented power class	1 kW
Converter module reference	400 kVA class documentation

Additional engineering data

Cooling load reference	Y41 fan circuit
Power-semiconductor references	V21 to V23

Applicability boundary

The exact board role and converter relationships are identified in the ABB hardware manual. Board-level electrical values not stated by ABB are not inferred.

03 Integration and engineering interpretation

Converter cooling supply

Provide power to the documented 1 kW fan-inverter circuit.

Wind-turbine converter maintenance

Maintain the ACS800-67 internal cooling chain.

Fan-system fault isolation

Separate supply-board, inverter-board and fan-motor causes.

Exact-board replacement

Restore the A433 assembly and its documented connectors.

Technical notes

Converter relationship	Restore AFPS-11C at position A433 and verify its connection to AFIN-01C, fan Y41 and the documented V21 to V23 semiconductor path.

Power boundary	The 1 kW designation belongs to the documented fan-inverter circuit; do not treat it as the rating of the complete converter.
Technical reference	ABB ACS800-67 Wind Turbine Converters Hardware Manual.

Interpretation boundaries

Probe-only limit	Do not present complete-system range, scale or linearity as a standalone output of AFPS-11C.
Target influence	Material, geometry, finish and nearby conductive surfaces can change the installed response.
Length influence	Probe lead and extension cable form part of the calibrated electrical relationship.
Temperature influence	Apply component temperature limits at their actual locations and compare with process transients.
Mechanical influence	Thread engagement, rigidity, target travel and cable support affect repeatability and service life.
Acceptance rule	Use the approved machine baseline and maintenance procedure for the final as-left decision.

04 Diagnostic decisions and support record

How should AFPS-11C be distinguished from the converter control-power board?	Confirm the A433 location, fan-inverter supply role and connector destinations; do not identify it only by board size or nearby power components.
What should be tested if AFPS-11C does not start the cooling fan?	Check incoming protected power, board output, AFIN-01C command path, fan motor circuit and interlocks in the converter diagram.
How should AFPS-11C connectors be handled during replacement?	Photograph each plug, mark orientation, inspect locking and discoloration, and reconnect only after comparing the converter circuit diagram.
What proves AFPS-11C is functioning after installation?	Verify fan start and hold behavior, stable output under load, correct airflow and absence of cooling-system diagnostics.
What evidence should be recorded before replacing AFPS-11C?	Capture the complete nameplate, installed slot or mounting position, companion hardware, wiring identifiers and the accepted operating baseline for the 1 kw fan-inverter power-supply board.
How should an intermittent fault around AFPS-11C be isolated?	Separate field wiring, connector, supply, grounding, configuration and host-system causes. Reproduce the symptom under a controlled test and change only one variable at a time.
What configuration evidence should be retained after commissioning AFPS-11C?	Retain the hardware identity, firmware or parameter record where applicable, channel assignment, as-left measurements, alarm or diagnostic state and the approved functional-test result.
When should AFPS-11C be rejected during incoming inspection?	Quarantine the item if the complete marking, connector keying, board revision, protective coating, terminal condition or required companion hardware differs from the approved replacement record.

Verified source

ABB ACS800-67 Wind Turbine Converters Hardware Manual

Related product references

Related product	ZINT-571 3AUA0000077333
Related product	CI858K01 3BSE018135R1
Related product	PM511V16 3BSE011181R1
Related product	BCU-12 3AUA0000110430

Engineering contact

Discuss the exact marking and installed application with Apter Power.
sales13@apterpower.com | +86 18030235313

Acceptance evidence package

Nameplate evidence	Overall and close photographs showing AFPS-11C, revision, approval and serial details where present.
Installation evidence	Views of the rack position, mechanical datum, terminal assignment, cable route and strain relief.

Configuration evidence	Export or screenshots identifying the approved hardware assignment and parameters without exposing credentials.
Baseline evidence	As-found readings with units, test conditions, machine state and the instrument used.
Inspection evidence	Connector, contact, insulation, fastener, contamination and heat-condition observations.
Functional evidence	As-left readings and the controlled input, output or channel response used for acceptance.
Change evidence	Any wiring, setting, firmware or mechanical change linked to its approved work reference.
Release evidence	Technician, reviewer, date, asset reference and the maintenance-record location for traceability.

Controlled acceptance sequence

01 Isolate	Place the monitored machine and channel in the approved maintenance state; prove the required isolation.
02 Photograph	Capture AFPS-11C, the installed datum, connector, route and companion-component markings.
03 Measure	Record mechanical position and the applicable stopped-machine electrical reading before removal.
04 Compare	Check delivered identity, interfaces and evidence against the approved drawing and spare-parts record.
05 Install	Fit without twisting the lead; preserve thread engagement, target clearance, bend radius and strain relief.
06 Set point	Establish the operating gap or datum only with the approved stopped-machine procedure.
07 Prove	Compare local reading, monitor indication and controlled operating response with the accepted baseline.
08 Handover	Record as-left values, photographs, deviations, responsible technician and release approval.

Evidence quality controls

Traceability	Each value is tied to AFPS-11C, the asset location, test state, instrument and date.
Repeatability	The same approved method and comparable operating state are used for before-and-after readings.
Resolution	Recorded precision does not exceed the capability of the instrument or source document.
Reference state	Stopped, energized, loaded and process-running observations are clearly distinguished.
Change control	Every changed setting, connection or mechanical datum has an approved reason and reviewer.
Retention	Evidence remains accessible with the maintenance record for future troubleshooting and replacement review.