KJ1501X1-BC1 12P2186X032 VE5008

Emerson / DeltaV DC/DC system power supply

Emerson KJ1501X1-BC1 12P2186X032 VE5008 is a DeltaV DC/DC system supply used to support the configured controller and I/O power architecture.

Product identity and system role

The KJ1501X1-BC1 12P2186X032 VE5008 supply belongs to the DeltaV cabinet power path. It converts a supported DC input into the system power needed by the installed controller and I/O assembly. A supply replacement must retain the original feed, rail and alarm wiring arrangement.

The VE5008 catalog reference identifies a 24/12 V DC-to-DC system power supply. The full KJ1501X1-BC1 and 12P2186X032 markings identify the offered hardware. Input and output current limits depend on the physical supply execution and installed load and should be checked against the offered label before sizing the cabinet.

Verified technical characteristics

System family	DeltaV M-series
Physical supply marking	KJ1501X1-BC1
Part number	12P2186X032
Catalog reference	VE5008
Catalog power role	24/12 V DC-to-DC system supply
Cabinet interface	System power feed and distribution

Engineering context

DeltaV cabinet power

Supply the configured M-series controller and associated I/O power distribution.

DC source conversion

Use the approved cabinet input source and supply execution to support required internal rails.

Power path restoration

Restore a matching supply without changing load allocation or alarm wiring.

System startup

Support controlled restart and power diagnostics after a maintenance change.

Configuration and verification

Match the supply label: Compare the complete KJ1501X1-BC1 12P2186X032 VE5008 and actual electrical nameplate.

Check the input source: Verify DC voltage, polarity and protection before connection.

Review connected load: Confirm the controller and I/O rail demand against the actual supply rating.

Record alarm wiring: Preserve power-fail contact and diagnostic connections.

Selected engineering questions

How should the upstream DC feed be checked for KJ1501X1-BC1 12P2186X032 VE5008?

Measure the isolated source, polarity and protective circuit against the offered supply nameplate before energizing.

What could explain a rail drop after loading KJ1501X1-BC1 12P2186X032 VE5008?
Compare load current, cable terminations, upstream source capability and actual output rating.

Can KJ1501X1-BC1 12P2186X032 VE5008 replace a different DeltaV supply with the same housing?
No. Match input, output, alarm contacts, connector arrangement and installed load.

How should alarm contacts be verified when fitting KJ1501X1-BC1 12P2186X032 VE5008?
Trace the cabinet alarm circuit and perform a controlled fault or status test under the site procedure.

What should be recorded before removing KJ1501X1-BC1 12P2186X032 VE5008?
Record feed voltage, rail loads, terminal assignments, protection devices and existing diagnostic indications.

How can a low-voltage fault be isolated with KJ1501X1-BC1 12P2186X032 VE5008?
Check source sag, wiring resistance, overload and supply diagnostics at the operating load.

Why must polarity be confirmed for KJ1501X1-BC1 12P2186X032 VE5008?
A DC/DC supply requires the correct source and terminal assignment; physical connector fit does not establish polarity.

What final checks are needed after installing KJ1501X1-BC1 12P2186X032 VE5008?
Confirm output rails, controller/I/O recognition, alarm state and stable operation during the approved startup sequence.

Source and application boundary

Emerson DeltaV Power Supplies Product Data Sheet, December 2003; Emerson DeltaV stock list, 121015.

VE5008 establishes the catalog power-supply role; exact electrical limits must follow the physical KJ1501X1-BC1 / 12P2186X032 nameplate.

Related product references

Separate product listings for project review; confirm each order code and system fit independently.

Emerson KJ2003X1-BB1 12P3439X012	Emerson KJ2003X1-BB1 12P3439X012 VE3006
Emerson KJ3002X1-BA1 12P0680X072 VE4003S2B2	Emerson KJ3002X1-BF1 12P1732X082 VE4003S6B1
Emerson KJ3203X1-BA1 12P3270X042 VE4001S2T2B4	Emerson KJ3221X1-BA1 12P2531X102
Emerson KJ3221X1-BA1 12P2531X102 VE4035S2B1	Emerson KJ3222X1-BA1 12P2532X072 VE4033S2B1

Apter Power | Technical enquiry

sales13@apterpower.com | +86 18030235313

Send the complete model and installed-system details when requesting a quotation.