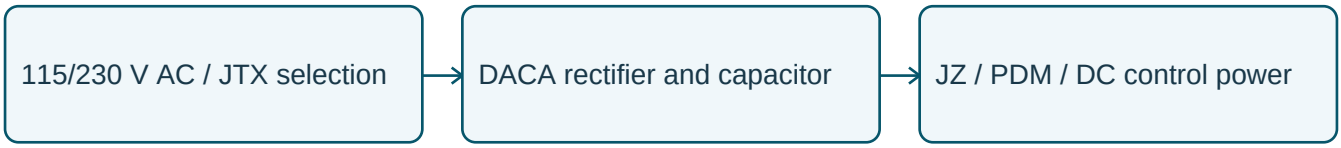
DS2020DACAG2

01 / System identity and preparation

GE DS2020DACAG2 supplies the DC power-distribution path in applicable Mark VIe control systems and connects to the PDM through a common input/output harness.



Preparation priorities

Module identity	Match DS2020DACAG2 and any revision markings. Distinguish the G2 design from the earlier G1 before planning parallel operation.
Input selection and harness	Match JTX1 to 115 V AC or JTX2 to 230 V AC. Check the 12-position JZ harness to PDM JZ2 or JZ3 before applying power.

Guide boundary

This Apter Power guide organizes preparation and acceptance checks. Apply the manufacturer instructions and approved site procedure for detailed wiring, mounting, configuration and functional testing.

Application boundary

Output ratings depend on input voltage, load and ambient temperature. Parallel operation requires two G2 modules on the same AC source and a 16.5 A DC total-current limit.

Product and installation enquiries

sales13@apterpower.com | +86 18030235313

Apply manufacturer instructions and approved site procedures.

02 / Configuration review before service

Module identity	Match DS2020DACAG2 and any revision markings. Distinguish the G2 design from the earlier G1 before planning parallel operation.
Input selection and harness	Match JTX1 to 115 V AC or JTX2 to 230 V AC. Check the 12-position JZ harness to PDM JZ2 or JZ3 before applying power.
Current and temperature	Allow 9.5 A DC only through 45 °C; linearly derate to 7.5 A at 60 °C. Two parallel G2 units share one AC source and a 16.5 A total limit.
Power acceptance	Verify input selection, connection security and DC output under the planned load. Confirm current sharing in a parallel installation; no module diagnostics are provided.

Isolate and discharge

Isolate the incoming supply before service. Allow the specified one-minute discharge interval, then verify residual voltage under the approved site procedure before handling connections.

Select the actual AC source

Use JTX1 for nominal 115 V AC or JTX2 for nominal 230 V AC. Confirm the source voltage and selector before energizing DS2020DACAG2.

Mismatch decision

Resolve a different catalog marking, interface, software requirement or installed configuration before proceeding. Physical similarity alone does not establish an approved replacement.

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03 / Hardware and interface checks

Preserve the JZ connection

Identify the single 12-position JZ power harness and its PDM JZ2 or JZ3 destination. Secure the four base mounting points and restore the correct connector arrangement.

Apply thermal derating

Keep the installation within -30 to 60 °C with free convection. Above 45 °C, reduce the output rating linearly from 9.5 A to 7.5 A at 60 °C.

Key hardware references

Product function	AC-DC power conversion
Nominal input	115/230 V AC, selectable
AC input range	105-132 / 210-265 V AC
Input frequency	47-63 Hz

Preserve the connection record

Photograph and label the affected connections before disconnection. Retain the original routing, module positions and identification with the work order, and compare the restored installation against that record.

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04 / Commissioning and diagnostic decisions

Control parallel current sharing

Connect both G2 modules to the same AC source. Limit total panel current to 16.5 A DC and assess individual current sharing; do not apply this arrangement to G1 modules.

Validate output and condition

Measure the DC output under the intended load and review capacitor condition and service history. The module has no built-in diagnostics, and capacitor aging depends on ambient temperature.

Acceptance checkpoints

Before energization	Match JTX1 to 115 V AC or JTX2 to 230 V AC. Check the 12-position JZ harness to PDM JZ2 or JZ3 before applying power.
Configuration review	Allow 9.5 A DC only through 45 °C; linearly derate to 7.5 A at 60 °C. Two parallel G2 units share one AC source and a 16.5 A total limit.
Functional release	Verify input selection, connection security and DC output under the planned load. Confirm current sharing in a parallel installation; no module diagnostics are provided.

Abnormal result

If diagnostics, communication or functional response differ from the approved baseline, stop the release and resolve the configuration or installation issue. Do not bypass an interlock or protective function to obtain a passing test.

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05 / Service record and technical references

Lifecycle and support

The current manufacturing and service-support phase for DS2020DACAG2 is not confirmed. Request current lifecycle and replacement guidance for the complete fitted reference from GE.

Technical basis

GEH-6721G, Mark VIe Control System Guide, Volume II - DS2020DACAG2 AC-DC power conversion excerpt.

Applicability

Output ratings depend on input voltage, load and ambient temperature. Parallel operation requires two G2 modules on the same AC source and a 16.5 A DC total-current limit.

Related portfolio references

GE IS420UCSCH1A-H-V0.1-A

GE IS200SRLYH2AAA

GE IS200TPROH1C

Navigation only. These listings are not confirmed replacements, compatible accessories or included items.

Handover record

Retain the complete fitted marking, hardware/software revision where applicable, connection record and accepted test results. Confirm separate accessories and documents in the quotation.

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