DS2020DACAG2

01 / Product identity and control context

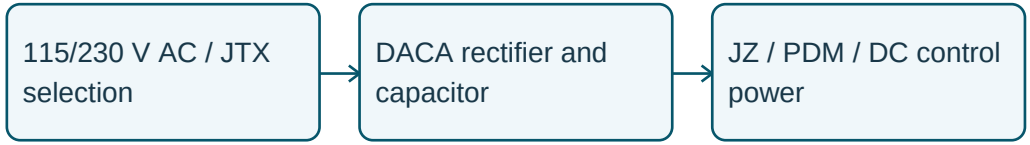
AC-DC Converter

GE DS2020DACAG2 converts 115/230 V AC to nominal 125 V DC for Mark VIe control-power systems, with local energy storage to support ride-through during a loss of control power.

Key characteristics

Product type	AC-DC power conversion module
System family	Mark VIe control-power distribution
Nominal input	115/230 V AC, internally selected
Nominal output	125 V DC, approximately 1000 W

Functional relationship



Module identity

Match DS2020DACAG2 and any revision markings. Distinguish the G2 design from the earlier G1 before planning parallel operation.

Configuration 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.

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02 / Technical characteristics

Hardware and functional data

Manufacturer	GE
Product series	Mark VIe
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
Nominal DC output	125 V DC; approximately 1000 W
Output voltage range	90-145 V DC at 1-9.5 A over input range

Interfaces and operating conditions

Continuous output current	9.5 A DC at -30 to 45 °C
High-temperature derating	Linear to 7.5 A DC at 60 °C
Two-module parallel limit	16.5 A DC total; same AC source
Output ripple	4 V peak-to-peak
Power connector	12-position JZ; PDM JZ2 or JZ3
Input selection	JTX1: 115 V AC; JTX2: 230 V AC
Ambient temperature	-30 to 60 °C; free convection
Relative humidity	5-95%, non-condensing

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03 / Application and integration contexts

AC-fed control-power conversion

Convert a selected 115 or 230 V AC source into DC control power. Use the applicable PDM harness and verify the actual output under the intended load.

Control-power ride-through

Local capacitor energy supports the DC bus during a loss of control power. Available hold-up time depends on initial input voltage and the connected constant-power load.

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.

Parallel G2 power arrangements

Use two G2 modules on one AC source where the panel design requires greater current. Respect the 16.5 A DC total limit and confirm current sharing.

Earlier DACA replacement

DS2020DACAG2 is a replacement for DS2020DACAG1 in systems using the earlier version. Preserve the selected input voltage, harness arrangement and cabinet mounting.

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.

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04 / Installation and release decisions

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.

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.

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.

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05 / Lifecycle, evidence and related portfolio

Lifecycle status

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.

Supply boundary

Apter Power availability and dispatch are confirmed separately from the manufacturer lifecycle phase.

Technical basis

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

Related product references

GE IS420UCSCH1A-H-V0.1-A

GE IS200SRLYH2AAA

GE IS200TPROH1C

Navigation only; no substitute or accessory compatibility is implied.

Offered-unit verification

Compare the complete label, connectors, mounting arrangement and applicable hardware/software revision. Confirm included components and accompanying documents in the quotation.

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