General Electric IS420UCSBH4A

UCSB Controller

Mark VIe controller with a 1066 MHz Intel EP80579 processor. The manufacturer-hosted IECEx document lists 28 V DC / 1.1 A maximum input and a -30 to +65 degrees C ambient range.

Controller

IS420UCSBH4A

System I/O

Digital and analog

Application

Turbine / driven load

System configuration boundary

Simplex / Dual / TMR: application-dependent system architectures documented by DNV.

Installed application: match software and I/O to the approved system record.

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General Electric
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Mark VIe Controller

02 / Technical capability map

Processing and identity

Control platform

Mark VIe

Component identity

UCSB controller

Processor

Intel EP80579

Processor frequency

1066 MHz

Electrical and ambient

Rated input

28 V DC

Maximum input current

1.1 A

Certificate ambient range

-30 to +65 degrees C

Certified installation

IECEx protection marking

Ex ec IIC T4 Gc

Classified-location enclosure

Certified enclosure, IP54 minimum

Installation pollution degree

2 maximum

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03 / Common applications

Gas turbine / generator systems

Controller within the documented Mark VIe system configuration.

Steam turbine / generator systems

Supports the documented turbine-control system when configured for its application.

Hydro-electric turbine / generator systems

Controller listed in the system-level DNV approval covering this application configuration.

Gas turbine / compressor systems

Used within the documented mechanical-drive control configuration; verify application approval.

Important Notice: These are system-level configurations described in the DNV certificate. Confirm the actual installed application, software and I/O; do not infer a ready-to-use system from the controller alone.

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04 / Product precautions

1. Confirm the complete IS420UCSBH4A identity and its equipment marking.

2. Match the rated 28 V DC input and maximum 1.1 A controller input current.

3. Apply the certificate ambient range of -30 to +65 degrees C for this model.

4. For the certified installation, use an IP54-minimum certified enclosure and Pollution Degree 2 or lower environment.

5. Provide transient protection so disturbances do not exceed 140 percent of rated voltage.

6. Use an SMPS certified for the location with output current limited to 20 A maximum; this supply limit is distinct from controller input current.

7. Use a power distribution board certified for the applicable classified location.

8. Use the applicable GEH-6721 system instructions and approved application documentation for actual wiring, replacement and startup.

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05 / Model-specific FAQ (1-4)

1. Which processor is documented for General Electric IS420UCSBH4A?

The manufacturer-hosted DNV type-approval table identifies IS420UCSBH4A with a 1066 MHz Intel EP80579 processor. Processor ratings for other UCSB suffixes are not substituted.

2. How does the input rating of General Electric IS420UCSBH4A differ from the certificate 20 A SMPS condition?

The IECEx annex lists IS420UCSBH4A input as 28 V DC, 1.1 A maximum. The separate 20 A limit concerns the certified SMPS output in the installation conditions; it is not the controller's current consumption.

3. Which certified ambient range applies to General Electric IS420UCSBH4A?

IECEx Issue 7 specifies -30 to +65 degrees C for models other than the separately identified H3A/UCSA exceptions. H4A is included in that general range, subject to all applicable installation conditions.

4. What hazardous-area marking is listed for the controller group containing General Electric IS420UCSBH4A?

The IECEx annex includes IS420UCSBH4A in the Ex ec IIC T4 Gc controller group. Use that marking only within the certificate's scope and specified conditions; it does not authorize an arbitrary installation.

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06 / Model-specific FAQ (5-8)

5. Does the IP54 installation condition describe a sealed bare General Electric IS420UCSBH4A controller?

No. The certificate requires installation in an appropriately certified enclosure providing at least IP54. The enclosure requirement must not be represented as a standalone enclosure rating of the bare controller.

6. Which environmental and transient conditions apply to certified installation of General Electric IS420UCSBH4A?

The certificate specifies Pollution Degree 2 maximum and protection preventing transient disturbances from exceeding 140 percent of rated voltage. These are installation conditions, alongside the required enclosure and power-supply provisions.

7. Does one General Electric IS420UCSBH4A controller establish a complete TMR turbine-control system?

No. DNV describes Simplex, Dual and TMR as system architectures involving the required controllers and I/O networks. The installed software, I/O and approved application determine the system configuration.

8. Can the installation reference for General Electric IS420UCSBH4A replace GEH-6721 commissioning instructions?

No. The Apter Power installation reference summarizes the certified ratings and installation conditions supported by official manufacturer documents. Detailed wiring, replacement and startup require the applicable GEH-6721 system instructions.

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07 / Document purposes, related portfolio and sources

Manuals 1: Technical Reference

Exact-model processor, electrical ratings and documented system boundaries.

Manuals 2: Certified Installation Reference

Apter Power reference to the exact-model certified installation conditions. It does not replace the GEH-6721 system handbook.

View as PDF: Complete Information

Manufacturer-verified specifications, applications, precautions and document purposes.

Related Mark VIe portfolio

Separate product references; no compatibility or replacement equivalence is asserted.

General Electric IS200TRPGH2B

View General Electric IS200TRPGH2B

General Electric IS220PSFDH1A

View General Electric IS220PSFDH1A

General Electric IS220PTCCH1A

View General Electric IS220PTCCH1A

DNV Type Approval Certificate TAA000001E, Revision 1, issued 19 April 2024; Tables 1 and 3 and application limitations. Official manufacturer document.

IECEx Certificate IECEx UL 21.0073X, Issue 7, 16 February 2026; certificate pages 1 and 3; Annex pages 2 and 4. Official manufacturer document.

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