

T155 H-GIS

Hybrid Gas-insulated Substations 420 kV, 63 kA, 5 000 A, 2 cycles

GE Vernova makes the most of 50 years of experience in design, material selection, development, engineering, manufacturing and servicing of gas-insulated substations.

GE Vernova's T155 H-GIS meet the challenges of networks up to 420 kV for all applications: power generation, transmission and heavy industry.

Environment Friendliness

- Lowest gas weight on the market
- First-in-class SF₆ sealing system

Highest Availability

- Best experience and reliability data
- Current transformers outside SF₆
- Pure-spring circuit-breaker drives
- Outstanding accessibility: drives and accessories at easy reach

Shortest Site Works

- Complete bays assembled, wired, tested and shipped

Smart Grid Features

- Full-digital monitoring, control and protection



Key Benefits

- Maximum safety
- Compact and accessible
- Field-proven reliability
- First-class availability
- Low total cost of ownership
- Smart Grid ready
- Low environmental impact





General Ratings

Reference electrotechnical standards		IEEE / IEC
Voltage	kV	362 / 420
Withstand voltages		
Short-duration power-frequency, phase-to-earth / across open switching device	kV	650 / 815
Switching impulse, phase-to-earth / across isolating distance	kVp	1 050 / 900 (+345)
Lightning impulse, phase-to-earth / across open switching device	kVp	1 425 / 1 425 (+240)
Frequency	Hz	50 / 60
Continuous current	A	up to 5 000
Short-time withstand current / Duration of short-circuit	kA / s	63 / 3
Ambient temperature range	°C	down to -30 / up to +55

Circuit-Breaker Ratings

First-pole-to-clear factor		1.3 - 1.5
Short-circuit breaking current	kA	63
Short-circuit making current	kAp	170
Operating sequence		0 - 0.3 s - CO - 3 min - CO / CO - 15 s - CO
Drive type		pure-spring
Breaking time	cycles	2
Mechanical endurance	class	M2
Capacitive switching	class	C2

For more information, visit
governova.com/grid-solutions

IEC is a registered trademark of Commission Electrotechnique Internationale. IEEE is a registered trademark of the Institute of Electrical Electronics Engineers, Inc. Modbus is a registered trademark of Schneider Automation.

GE Vernova reserves the right to make changes to specifications of products described at any time without notice and without obligation to notify any person of such changes.

© 2025 GE Vernova and/or its affiliates. All rights reserved. GE and the GE Monogram are trademarks of General Electric Company used under trademark license.