

nuventura



Powell (UK) Limited and Nuventura (German Based technology company) jointly offers Powlnu1 - SF6 free Dry air Gas-insulated switchgear (GIS) to the UK industrial and commercial markets. Based on Cutting edge 100% SF6 free technology, the product offers compact dimensions, low maintenance and high operation reliability.

Features and Benefits

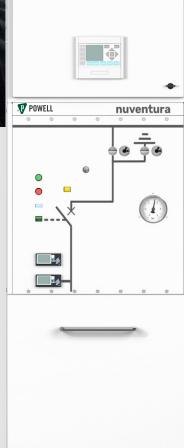
- 36kV up to 2000A ratings
- Vacuum interrupter technology for safe and reliable switching
- Wide range of protection schemes available on request
- Hermetically sealed stainless-steel tank, insensitive to atmospheric conditions such as Salt, dust, humidity and condensation
- Fully ready supplied from factory, no on site gas handling for installation or commissioning
- Front Cable termination for ease of cabling
- Smart grid ready with remote operation, monitoring, and diagnostics to track asset health.
- Internal Arc rated to AFLR for maximum operator safety.
- Safe operation in event of dry air pressure loss

APPLICATIONS

- Energy Power generation, DNO, IDNO and ICP (Independent connection provider)
- Solar Photo Voltaic Farms
- On-Shore Wind Farms
- Energy Storage BESS
- Hydrogen Production
- Sustainable Aviation Fuel
- Carbon Capture and Storage
- · Electric Vehicle Charging
- Data Centre and Commercial Buildings
- Water and Waste Water Facilities
- · Airports, Ports, and Railway Infrastructure

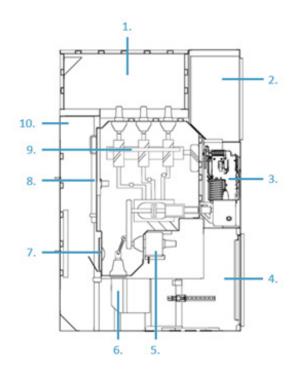
STANDARDS

- IEC 62271-200 AC Metal enclosed switchgear and control gear
- IEC62271-100 Alternating current circuit breakers.
- IEC62271-1 HV switchgear and control gear common specification
- IEC62271-102 Alternating current disconnectors and earthing switches
- IEC60255 Measuring relays and protection equipment.





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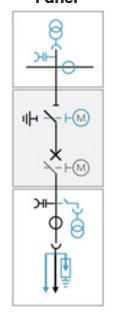


Technical data acc. to IEC 62271-200			
Rated voltage	kV	24	36
Testing voltage (PF/Impulse)	kV	50/125	70/170
Rated frequency	Hz	50/60	50/60
Rated busbar current	Α	2500	
Rated feeder current	Α	1250/2000*	
Rated short time current	kA	31.5 (3s)	31.5 (3s)
Internal arc protection AFLR	kA	31.5 (1s)	31.5 (1s)
Dry air insulation medium			
Filling pressure (rel.)	kPa	100 at 20 °C	200 at 20 °C
Min. operating pressure (rel.)	kPa	80 at 20 °C	180 at 20 °C
Operating temperature	°C	-5 + 40	
Dimensions			
Width 1250A/2000A	mm	650/900	650/900
Height 1250A/2000A	mm	2360	2360
Depth	mm	1500	1500
*Available in Q4 2024	1		ı

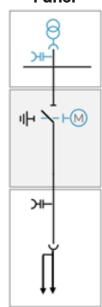
POWLNUI CROSS-SECTION

- 1. Busbar compartment
- 2. Low voltage compartment
- 3. Drive compartment
- 4. Cable compartment
- 5. Current transformer
- 6. Voltage transformers
- 7. Pressure relief disc
- 8. Gas tank door
- 9. Three-position disconnector
- 10. Pressure relief duct

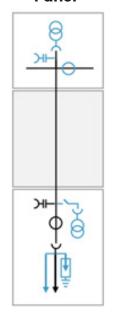
Circuit-Breaker Panel



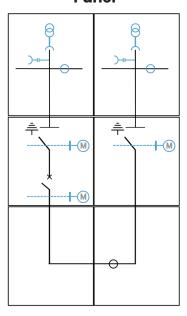
Disconnector Panel



Direct Connection Panel



Bus Sectionaliser Panel



OTHER VARIENTS: Busbar Earthing & Metering Panel Available