



42TECHNOLOGY

Control Cabinets for Gensets

VDE4105 and BDEW



Our control cabinet design is compliant with VDE AR-N-4105 and BDEW 2008 ff standards. We support you in the optimal integration of machine and control systems, and work together with you in order to attain the best result. Our standard drawings for equipment from 150 - 400kW ensure fast and qualitatively superior implementation. This means minimal time is spent on the planning of CHP and emergency power systems, and the basis for type tests can be laid fast.

42technology plans switchboards according to customer requirements. The countries requirements are met for parallel operation to the network. For Germany for example, this means depending on the applied standard:

- Application of compliant control systems
- Securing of single fault security
- Redundant generator circuit breaker
- Decoupling from mains according to validated guidelines
- Mains support adjustable to local specifications
- Planning of the control technology and interface

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TECHNICAL CONTROL SYSTEM DATA

VDE-AR-N-4105 (as per specifications)

- Mains disconnection <U, >U, >>U, <f, >f
- 10min. average protection at >>U
- Single fault tolerance with external monitoring
- Active power demand, analogue or digital
- Active power reduction at >f
- Mains support with power factor connection
- Compliance with the required control circuits
- Power return conditions after a mains fail
- Compliance with synchronisation requirements
- Control of dual coupling switches
- Password protection, history, and a lot more

BDEW 2008 ff (as per specifications, in addition to above)

- Dynamic, adjustable mains support parameters
- Active / reactive power demand analogue / digital
- Active power correction at >f
- Programmable reactive power characteristics
 - $\cos \varphi$ or
 - $\cos \varphi$ via D/A signal or
 - fixed reactive power in MVar or
 - Q(U)

CONFORMITY DECLARATIONS

- VDE-AR-N-4105: TÜV SÜD
- BDEW: Self declaration, type test necessary

CONSTRUCTION COMPOSITION

- 3 or 4 pole up to 6300A, with fan / thermostat
- Frame assembly, wall or standing cabinet
- Disconnecting terminals for power and voltage
- One or two generator circuit breakers
- Schneider, ABB breakers or to customer needs

RETROFITS AVAILABLE ACCORDING TO VDE AND BDEW



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CONTROL COMPONENTS

- Rittal TS8 or equivalent panel make
- PVC screwed identification plates
- Selectable protection class, colour, control elements
- Battery charging device with U/I characteristics
- Disconnecting terminals for power and voltage
- Lights with sockets controlled via door contact
- Standard components or according to customer
- Control of the auxiliary plant with integrated PLC
- Load shedding control according to customer needs
- CAN / Modbus connection to genset
- Expandable for multiple gensets and networks

RANGE OF SERVICES

- Planning, concept, realisation, documentation
- Commissioning, approval and service



SMALL AND LARGE INSTALLATIONS

- From a small CHP to a large 50MW installation
- Standard solutions or to customer requirements



REMOTE MONITORING SYSTEMS

Fleet, energy and service management



Features and specifications are subject to change without prior notice

Innovative energy solutions