

## e-shelter chooses UPS from Chloride Group for its data centres



### Case study:

**Customer:** e-shelter GmbH & Co. KG, Germany

**Application:**

- Data Centre Munich
- Data Centre Frankfurt (x2)
- Data Centre Berlin
- Data Centre Hamburg

**Performance criteria:**

- Leading and lagging power factors
- Expert design
- Secure installation

**Chloride products used:**

- Series SIII (90-NET) UPS
- CROSS static switches
- Batteries
- SNMP connectivity
- Maintenance package

e-shelter plans, develops and operates highly available data centres. Masterguard, the Sales & Service company for Chloride in Germany, has supplied 80 MVA of UPS power protection to e-shelter data centres across Germany.

e-shelter operates five different IT locations in Germany: Frankfurt/Main (x2), Berlin, Hamburg and Munich. Their users include many prestige companies from the world of financial services, telecom operators and IT service providers. At the headquarters in Frankfurt a.M. e-shelter has created a Campus environment encompassing two data centres over 60,000 sq.m with redundant infrastructure, integrated facility management and multistage security system.

Security plays a critical role in the operation of highly available data centres - above all: the power supply. The Frankfurt Campus operates a dual power- and emergency-power supply with an uninterruptible A- and B-busbar (for client IT systems) as well as a redundant supply (for all critical equipment like air conditioning/ventilation/security). The critical power infrastructure includes:

- electrical power supply at a 110 kV level from 2 transformer stations via separated lines (plus a second supply at 10 kV level)
- a dedicated campus substation with 2+1 transformers
- a redundant infrastructure using diesel generators as a backup supply
- N+1 redundant battery backup (with 15 min bypass)
- two separate Series SIII (90-NET) UPS systems (A- and B-supply)

The Engineering Consultant Poindecker based in Munich was responsible for the electrical planning and design of all e-shelter orders. Before site delivery each UPS was tested at Masterguard's UPS test bay in Erlangen, Germany.

Markus Ecke, Managing Director for e-shelter facility services GmbH explained why his company had chosen to place his trust in Chloride Group:

"As for increasing requirements concerning physical security and technical availability we need the best protection for accommodation, which is provided to us by Masterguard UPS's"



Chloride products installed

48	x	800 kVA
70	x	500 kVA
14	x	400 kVA
3	x	120 kVA
<b>135</b>		<b>79.360 kVA</b>