

EXCHANGE BESPOKE



63 – 2000 Amps 3 phase

Typical applications include:

- Data centres/ISP's
- Telecommunications
- Utilities
- Industrial
- Process Control
- Healthcare
- Safety systems



Systems also available as:

- Chassis mount
- Cabinet mounted

EXCHANGE 'BESPOKE' STS systems integrated with intelligent PDU meet the most demanding of customer requirements and specifications for mission critical applications and in particular high end data centre applications.

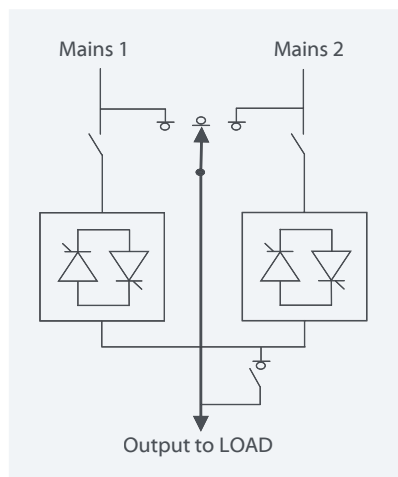
FEATURES

- Break before make switching.
- Manual & automatic transfers.
- Selectable preferred input source.
- Oversized neutral.
- Delayed retransfer back to priority source.
- 3 & 4 pole configurations.

PRINCIPLE of OPERATION

Dual input AC power is derived from two independent sources one of which is set as the 'priority' line. An automatic 'break before make' transfer to the alternative source will occur should the preferred source exceed pre-set tolerances or fail completely. Assuming both input supplies are synchronised the transfer time is typically 4 milliseconds.

CONFIGURATION



The basic electronic configuration of the switch is composed of two bi-directional thyristor switches for each phase equipped with protection and system control logic based on our standard field proven design.

4 pole versions include a neutral line switch.

Enclosures, switch-gear, interlocking and output PDU's are configured to meet specific project requirements

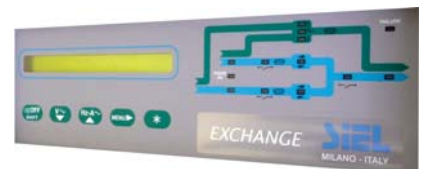
USER INTERFACE

Mounted on the front of the enclosure door is a comprehensive control and interface panel providing:

- Synoptic display providing LED indication of system operational status.
- LCD providing metering and other operational status indications including visual display of any current alarms.
- Pushbuttons for metering selection and control.

REMOTE COMMUNICATION

All systems are fitted with a 'customer interface' board providing:



- Volt-free contacts.
- RS232
- Optical communications port.
- RS485 with Modbus protocol.
- Fully compatible with SIEL TGS 24/7 remote monitoring.

Nominal rating (Amps)	63—2000 Amps
SOURCE INPUTS	
Nominal voltage	415 Vac ^{note1}
Voltage range	380 Vac -15% : 400 Vac +15%
Phases	3 + neutral
Frequency	50 or 60Hz
OUTPUT	
Transfer mode	Break before make (avoiding fault propagation)
Transfer time	5 m'secs maximum—3 m'secs typical
Overload	10 minutes: 125%. 1 minute: 150%. 10 sec's: 200%
Overload for 1 second (Amps)	Rating dependant
No. Poles	3 or 4
PHYSICAL DATA	
Dimensions	Design dependant
GENERAL	
Protection degree	Up to IP31 in accordance with EN 605929
Segregation/Separation	Up to and including form 4.7
Fault rating	Up to 80kA (ASTA certified)
Switch-gear	Duel input, duel bypass & output moulded case circuit breakers (castell interlocking)
Ventilation	Forced
Temperature range	0°C - +40°C (operating)
Relative humidity	Up to 95% Max—non condensing
Cable entry	Top or Bottom
Colour	In accordance with project requirements.

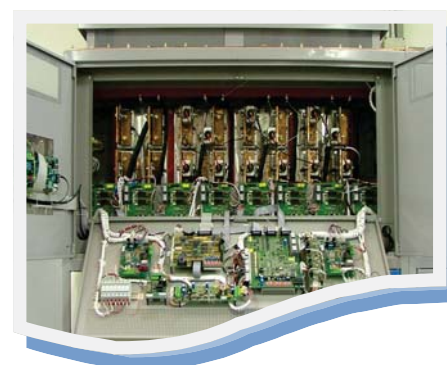
Notes: 1 - Other voltages on request.



Systems are constructed to meet up to 80kA fault rating (ASTA certified).



Composite construction arrangement STS—PDU.



EXCHANGE BESPOKE power module section.

PRODUCTS SERVICES

- Single phase UPS • • Installation
- Three phase UPS • • Service & maintenance
- Static transfer switches • • Battery maintenance & replacement systems
- Central power systems • • Turnkey projects
- Solar Converters •
- Wind turbine converters •



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