

Excel TnDys from 25 to 100 A



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Excel TnDys, Chloride's range of battery chargers dedicated to HV/MV primary distribution substations, is available from 25 to 100 A. Its design is the result of Chloride's long experience in protecting T&D substations combined with the latest available digital technology. This range has been specifically developed to meet various Utilities technical specifications.

Features and performances

Aspects of the ExcelTnDys premium class performance are:

- Thyristors-based 6-pulse rectifier to provide excellent reliability
- Input transformer to ensure isolation between the Mains and the connected load
- Ingress protection IP41 as standard
- Digital control of power converter for lifelong system settings
- Embedded input circuit breaker and battery fuse protection to enhance safety
- Embedded Dc output isolator switch to safely maintain the equipment
- Compact design to save space within technical room.



Flexibility for customised solutions

Excel TnDys has the capability to meet diverse Utilities technical specifications by offering the following options:

- Wide choice of DC voltage: 24, 36, 48, 60, 110V, 125 V
- 3 pack of options, from the basic front-panel meter up to DC earth fault monitoring and anti-condensation heater
- Dual parallel configuration with common or separated batteries.

Batteries

Excel TnDys is fully compatible with lead-acid and nickel-cadmium batteries, recombination or vented types.

Excel TnDys has been designed to cope with high capacity batteries, meaning that 10 hours autonomy batteries can be recharged up to 90% in less than 10 hours.

Using Advanced Battery Care (ABC), Excel TnDys serie increases battery life by including the following features:

- Ambient temperature compensated battery charger
- Automatic battery discharge test.

Designed for industrial applications

Excel TnDys provides lasting secure power architecture for your distribution substation as a result of:

- Continuous operation at full load in a permanent 40°C ambient temperature,
- System design life of at least 20 years in continuous operation conditions,
- Robust mechanical design (vertical and horizontal acceleration stress up to 0,5g).

Communication

Excel TnDys uses intuitive multilingual digital graphic control, meaning system status, measurements and alarms are accessible from the front panel of the charger

The embedded 'Event Log' function allows the user to trace the last 100 events. 2 operation modes are made available: the 'Saturable mode, which records a maximum of 100 events, and the 'FIFO mode' which permanently records events and delete the eldest ones.

3 Volt-free contacts are also available to monitor the charger from a SCADA system.

Further communication and monitoring solutions are also available as options:

- RS 232/ RS 485 serial Modbus communication
- 1 set of 12 door-mounted LEDS to locally check the equipment status.

Serviceability

Excel TnDys product design affords easy front access to all vital modules of the system in order to significantly reduce maintenance times.

By choosing the front panel LED indicators option which gives detailed view of the charger status and alarms, Excel TnDys allows you to quickly and efficiently identify the fault status and take appropriate actions to fix it.

The reliability of your system can be further supported by a network of local Chloride companies and approved partners who can deliver a full package of maintenance services.

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