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Best conditions for your success

Test chamber for lithium-ion energy storage devices

EUCAR Hazard Level 6*

The battery test chambers are suitable for aging and performance tests on lithium ions cells and modules. To ensure safety during the tests, the chambers are matched on the EUCAR hazard level 6.

Application:

Cells and modules are tested at different temperatures with and without a current supply to measure performance.

Safety features::

- Class 2 independent temperature safety device when temperature is set to 120 °C

- Temperature range limited to 120 °C on the controller

- Stainless steel pressure relief flap installed in the middle of the top of the unit

- Enhanced door lock mechanism with reinforced brackets

- H_2, CO, O_2 monitoring system

- Nitrogen purge

- LCO2 Fire suppression

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NITROGEN PURGE

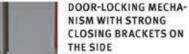Nitrogen purges into chamber to reduce the oxygen content in the inner chamber

REVERSIBLE PRESSURE RELIEF FLAP

Pressure relief flap with an additional relieving spring as a safety measure in the event of faults

LCO2 FIRE SUPPRESSION

Triggering the CO_2 compressed gas cylinder about emergency stop, exceeding a CO concentration value or one temperature increase in the test room.

TEMPERATURE RANGE LIMITED TO 120°C ON THE CONTROLLER

SIGNAL LAMP

Acoustic sounder and optical alert at different operating modes

DOOR-LOCKING MECHANISM WITH STRONG CLOSING BRACKETS ON THE SIDE

Access port for introducing external measuring instruments

GAS DETECTION

The detection of a fire is done by measuring the CO concentration. The H_2 concentration is also monitored to detect battery cell over-heating. O_2 is also monitored and can be reduced to minimise risks.

FURTHER ADJUSTMENTS AVAILABLE ON REQUEST:

Lithium-Ionen units are converted by our BINDER INDIVIDUAL department according to special customer requirements, and equipped with additional functions.

Program sequence display using indicator lamps

Electromechanical door lock mechanism controlled in a program and/or manually

Additional access ports available in almost all sizes and locations

*Operator is responsible for ultimate safety measures