

**Mondi Štětí a. s.**

**STANDARD**

**PART 20.04**

**BATTERIES FOR  
UNINTERRUPTED  
POWER SUPPLY**

## **STANDARD**

### **PART 20.04**

# **BATTERIES FOR UNINTERRUPTED POWER SUPPLY**

## **EXECUTION, REGULATIONS, STANDARDS**

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## 1 TYPES OF BATTERIES

for uninterrupted or large battery-buffered power supply and their storage requirements.

Producers of batteries for uninterrupted power supply (UPS) and similar uses offer maintenance-free and low-maintenance versions.

**1.1 Maintenance-free batteries** have the advantage of requiring nearly no maintenance and no separate battery room. The major disadvantage is that the producer-recommended ambient temperature has to be maintained within very close limits if the regular battery life is to be preserved. Since such ambient temperature can, however, be controlled only in air-conditioned rooms, maintenance-free batteries cannot therefore be placed in regular switch rooms, switch cabinets or regular battery rooms.

**1.2 Low-maintenance batteries** require a separate battery room, as specified by the relevant regulations (and which must be commissioned by the authorities), and require regular checking of the acid level, but allow a wide ambient temperature range for regular battery life. This advantage outweighs the disadvantages by far!

Thus for uninterrupted and large battery-buffered power supplies, in principle, only low-maintenance batteries should be used.

Note:

**Accumulator stations must be planned in accordance with CSN EN 50272-2 which refers to the operation of accumulators, charging stations and the placing of accumulators in buildings.**