Keeping the World Connected and Online: UPS and Telecoms Applications

Lead batteries remain the dominant technology for UPS and Telecoms, with continued growth predicted to 2030

CBI market report 2021, Avicenne





CBI market report 2021. Avicenne

UPS Battery Demand



KPIs for lead batteries in telecoms applications

Indicator

Calendar Life on float

Cycle life (Testing should follow IEC 60896-21/22)

Cost

Maintain Safety and Recyclability, Maint

KPIs for lead batteries in UPS applications

Indicator

Calendar Life on float

Peukert Capacity (15-minute vs. 10-hour capacity)

Cycle life (Testing should follow IEC 60896-21/22)

Cost

Maintain Safety and Recyclability, Main

UPS and Telecoms sectors:

- (\pm) in each sector between 2015 and 2030

Current	2028
15 y at 20°C	7-10 y at 40°C 20 y at 20°C
300 at 80% DoD	500 at 80% DoD
\$175/kWh	\$150/kWh
tain Shelf life	

 \oplus Increase Cycle life Total cost of Calendar life ownership (TCO)

Current	2028	
15 y at 20°C	7-10 y at 40°C 20 y at 20°C	
65-80%	85-90%	
300 at 80% DoD	500 at 80% DoD	
\$175/kWh	\$150/kWh	
tain Shelf life		

Achieving the KPIs will ensure lead batteries:

- Deliver the technical requirements needed by end-users
- Secure future market opportunities
- Continue being the dominant technology for UPS and Telecoms applications

More than 5.5 GWh of growth is forecast \bigcirc Significant opportunities exist for lead batteries if they continue to improve performance

Contact us:

- ♥ @CBlbatteries
- in Consortium for Battery Innovation

info@batteryinnovation.org

www.batteryinnovation.org







