EVERFLOW® TELECOM STORAGE

Energy Storage Anytime, Anywhere - Telocom Solution

The EverFlow® Telecom Storage is a stationary energy storage solution designed for telecommu - nication sites based on the powerful Vanadium Redox Flow Technology. It is the perfect energy backup for On- and Off-grid telecommunication towers, because it requires low maintenance and is unattractive to theft since there is no second usage life for the components.

EverFlow

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Details

On-grid, the EverFlow® Telecom Storage enables uninterruptible power supply in case of grid failures. It provides multi hours power supply on a daily base without any capacity loss in its lifetime. Regular replacement of batteries is not longer necessary!

Off-grid, the combination of a diesel generator with EverFlow® Telecom Storage reduces the daily diesel consumption. In combination with alternative energy sources like photovoltaic or wind generators one can become 100 % grid independent.

The EverFlow® storage system is unattractive for theft. Due to its heavy weight, lack of precious metals and no second usage life of its components the efficient batteries are unattractive for thieves. This combination makes the EverFlow® Telecom Storage the most versatile robust and long lasting storage system for telecom towers.

The electrolyte has no self-discharging inside of the tanks, a uniqueness of the Vanadium Redox Flow Technology. Depending on the current demand, energy is stored in the electrolyte or delivered to the telecommunication tower. The Eco-Design paired with industrial components makes the batteries repairable, therefore ensuring a long lifetime.

Developed and manufactured in Germany by SCHMID, the EverFlow® Telecom Storage is the most reliable battery for telecommunication sites.

Technical Data

Tower connection:
- DC connected -48 V
- Operating voltage range 58 – 38 VDC

Remote access and monitoring:
- LAN
- Operating parameters like: SoC, energy content, charge-/ discharge power, etc.

Environmental conditions:
- Average ambient temperature +5 °C to +30 °C
- Relative humidity 0 - 95 %, non-condensing
- Protection Class: IP54

Power and capacity:
- Continuous power: 5 kW
- Discharge capacity: 30 kWh

Dimensions (LxWxH) and weight:
- 2.60 x 1.40 x 2.35 m | approx. 3,000 kg

Maintenance and product warranty:
- Annually | Warranty: 12 months
- Service contract available on request for warranty extension

Benefits

- Uninterrupted DC connection directly with the tower rectifier bus - Zero power interruption at grid failure
- Attractive price and long asset lifetime
- Expected lifetime: ≥10,000 cycles or ≥20 years
- 100% Depth of discharge without capacity loss and effect on lifetime
- Unattractive to thieves due to lack of precious metals or second usage life of components
- Low maintenance and remote monitoring

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