

RECHARGING

Recharging of battery during exploitation is carried out if a capacity drop (discharge) occurred due to malfunction in vehicle or idleness of battery (longer than 90 days). In case of discharge, the battery shall be recharged within 48 hours. If this time is exceeded sulphation of the plates will occur, substantially reduces battery capacity and lifetime.

Recharging shall be carried out in the following order, conformity with the manufacturer's instructions:

- When being recharged it is essential to remove the battery.
- Demounting of battery shall be carried out as per instructions.
- Unscrew vent plugs before recharging.
- Check the level of electrolyte. If necessary, fill it up with distilled water only.

- Clean and degrease the terminal posts.
- Connect the battery to a DC source (prior to turning on the source).
- Connect + cable to + terminal post and - cable to - terminal post.
- Charge with current $I=0.1 C_n$, for 55Ah battery $I=5A$.
- Duration of charging is 14-18h or to reach a density of electrolyte of $1.275\pm 0.01 \text{ gr/cm}^3$ (to 'boiling' point).
- Charging temperature shall not exceed 55°C (in such case, reduce the current by 1/2).
- When charged with constant voltage, source shall not exceed 15.8V.

Upon recharging, check electrolyte level, wipe the battery clean, degrease the terminal posts and install the battery, as per instruction.

