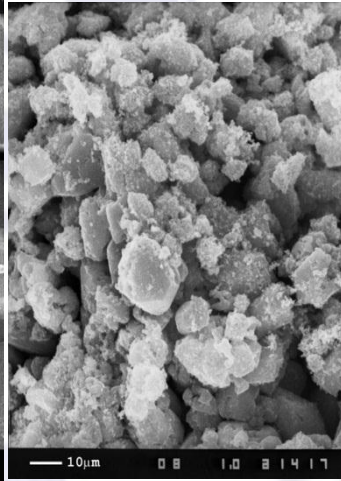
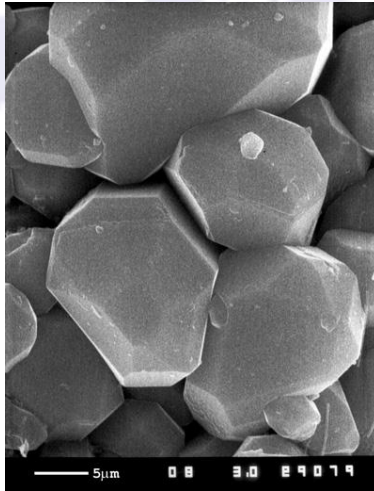


UPGRADES IN THE CONSTRUCTION U-POWER VRLA BATTERIES



U-POWER in close cooperation with the Central Laboratory of Electrochemical Power Sources (CLEPS) of Academy of Science.

MAIN ADVANTAGES OF THE NEW DESIGN

- positive and negative grid construction
- terminal sealing
- construction of terminals
- strength of the lid, thicker box and lid
- Valves open pressure up to 200 mBar (for 23" box)
- protective cap

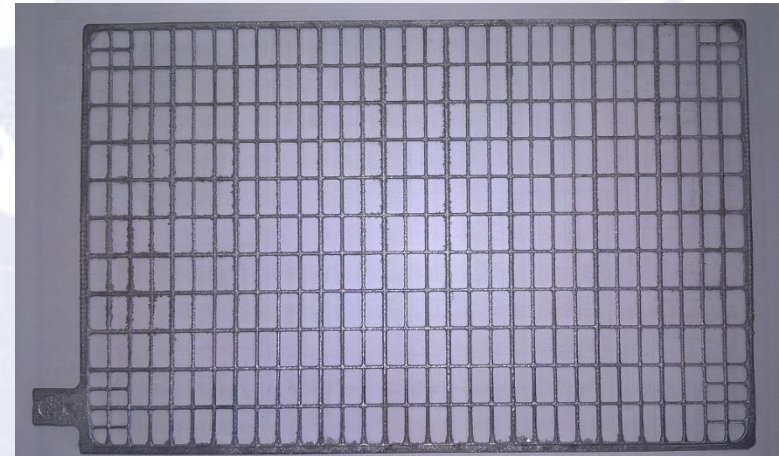
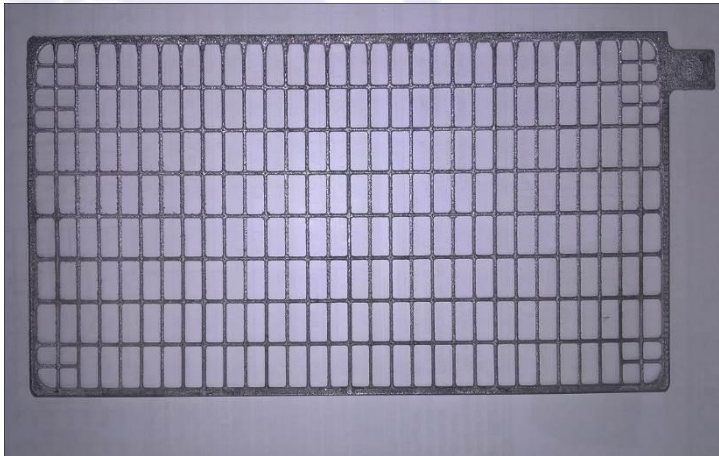
UPGRADES IN THE CONSTRUCTION U-POWER VRLA BATTERIES

NEW GRID DESIGN

- increased thickness
- increased the current-carrying sections
- increased mechanical strength
- longer connecting plates
- reinforcing the corners of the grid

UPGRADES IN THE CONSTRUCTION U-POWER VRLA BATTERIES

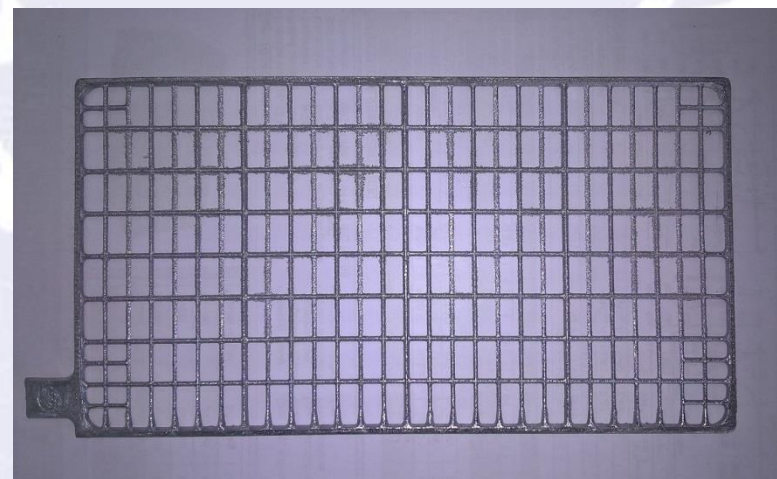
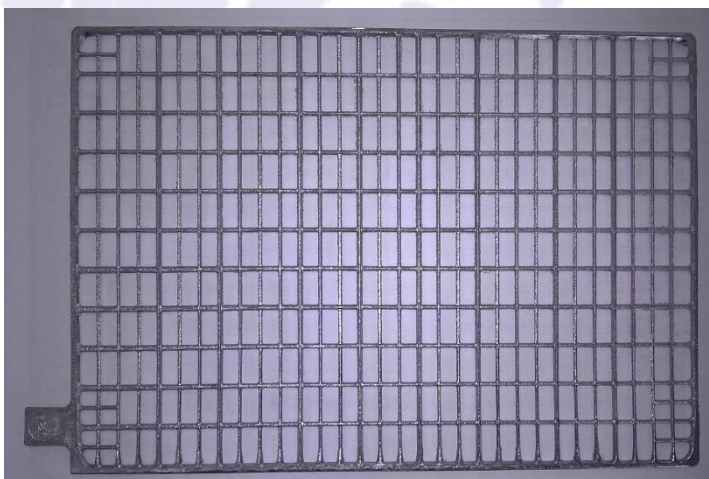
NEW NEGATIVE GRIDS





UPGRADES IN THE CONSTRUCTION U-POWER VRLA BATTERIES

NEW POSITIVE GRIDS



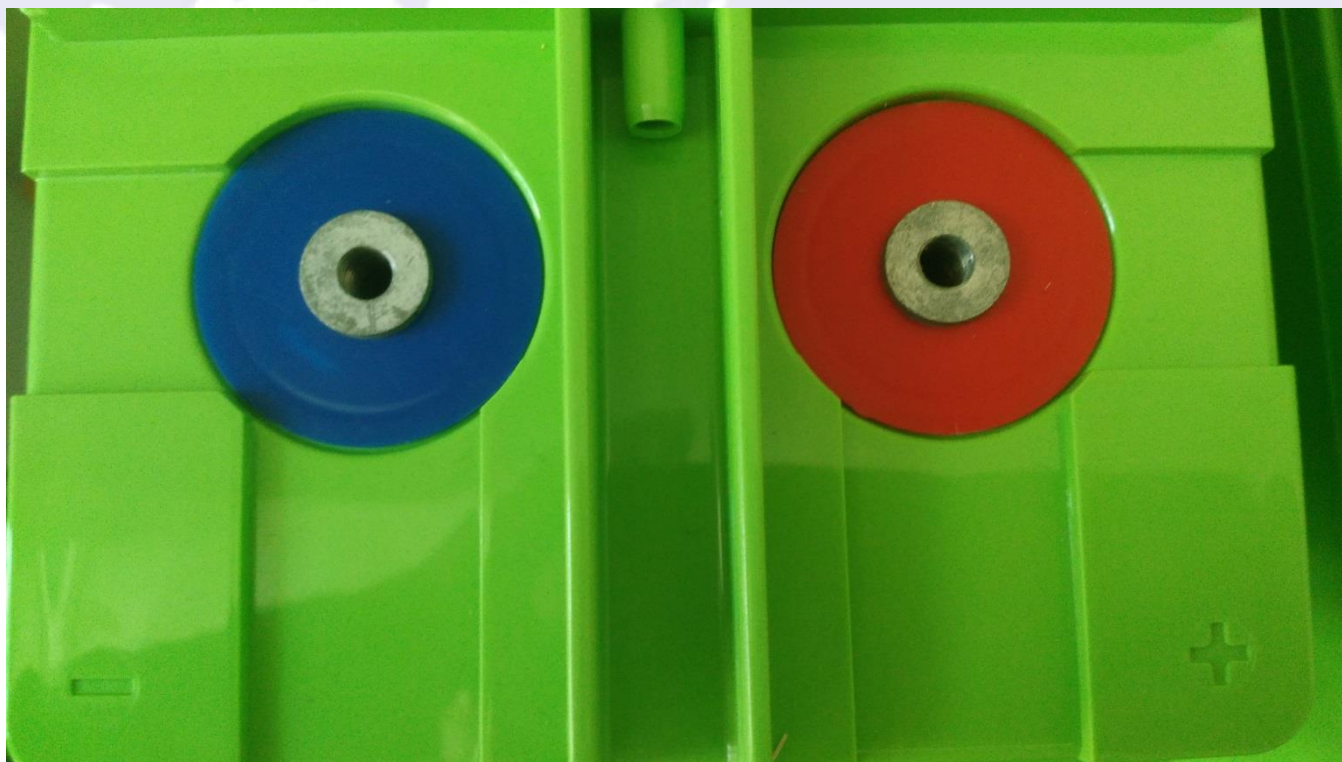
NEW CONCEPTION FOR TERMINALS

- terminals fully made of bronze
- increased mechanical strength
- new sealing technology
- brass M6
- new type of connectors



UPGRADES IN THE CONSTRUCTION U-POWER VRLA BATTERIES

NEW TERMINALS



LID DESIGN

- **new profile of the lid**
- **more free space for gases**
- **increased mechanical strength**
- **new type of valves for 23" box**
- **new design of protecting cap**



UPGRADES IN THE CONSTRUCTION U-POWER VRLA BATTERIES

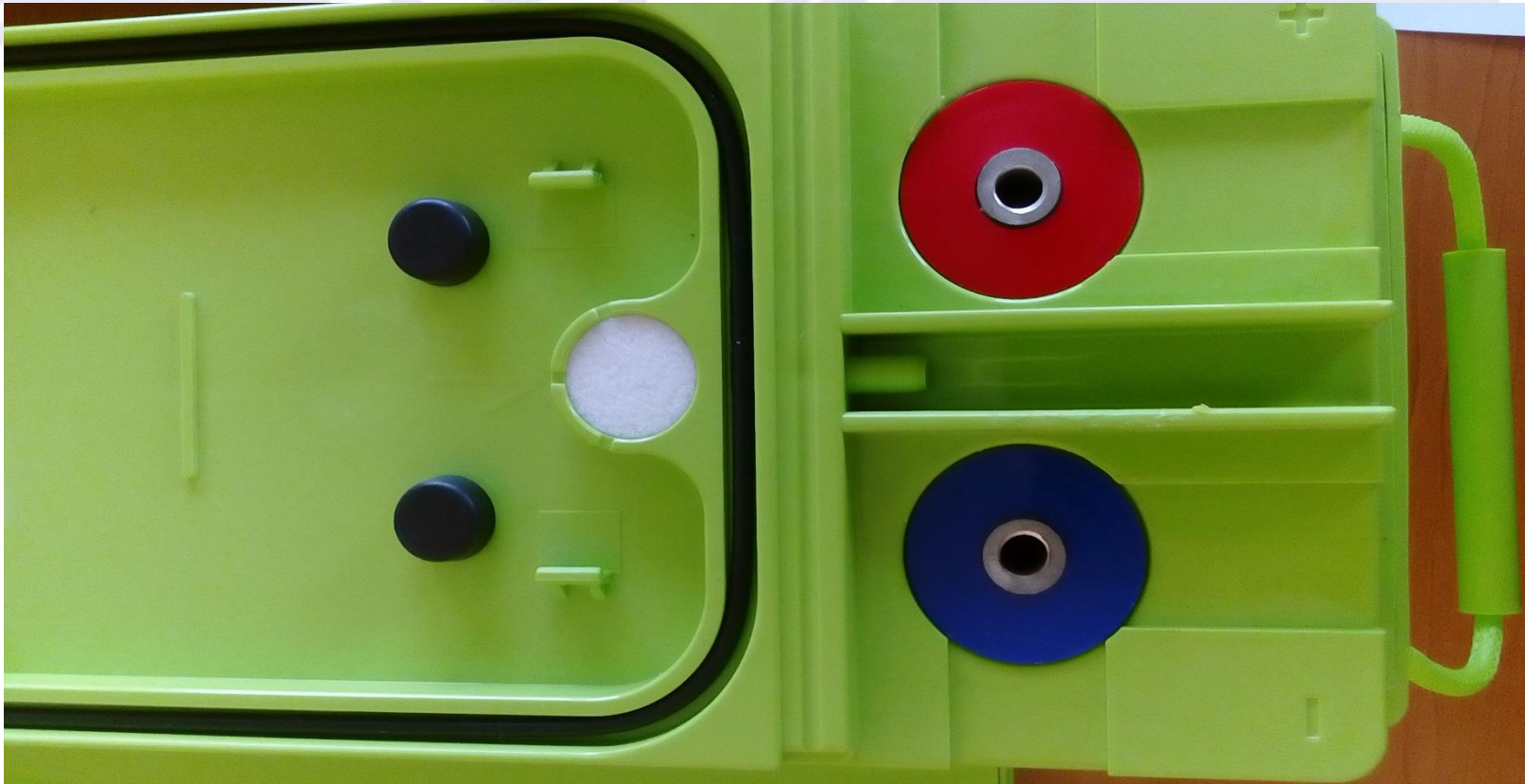
LID PROFILE





UPGRADES IN THE CONSTRUCTION U-POWER VRLA BATTERIES

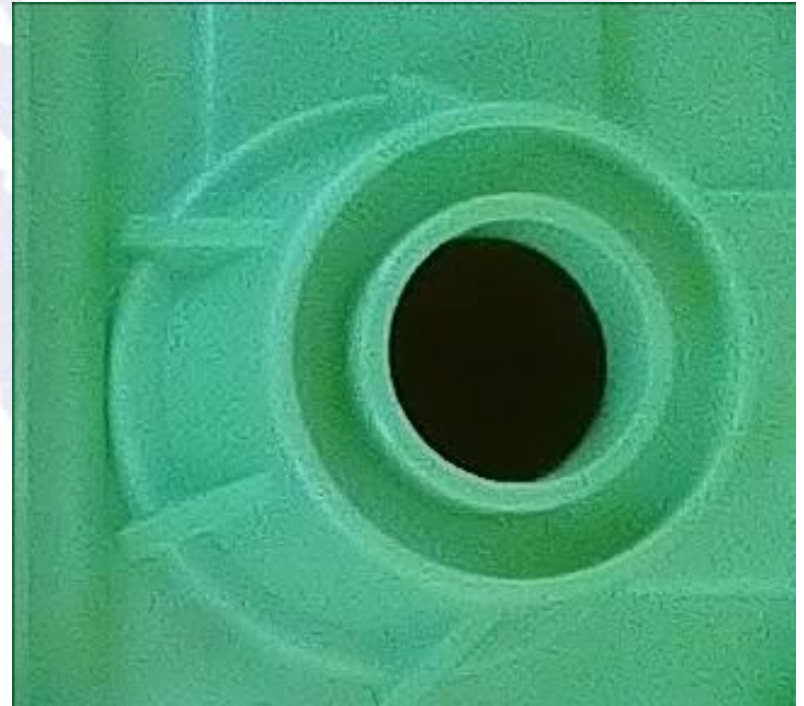
MORE GAS COLLECTING SPACE





UPGRADES IN THE CONSTRUCTION U-POWER VRLA BATTERIES

INCREASED MECHANICAL STRENGTH





UPGRADES IN THE CONSTRUCTION U-POWER VRLA BATTERIES

NEW BUNSEN TYPE VALVES FOR 23" BOX





UPGRADES IN THE CONSTRUCTION U-POWER VRLA BATTERIES

PROTECTIVE CAP



U*power*
Unlimited power

Thank you for your attention