



## FIREPROOF SAFES FOR STORING AND CHARGING OF LITHIUM-ION BATTERIES

### DATA SHEET



**batrea**  
VDMA 24994:2024-08 I/O30



3000 Wh

**3000 Wh at one storage level.**  
**Tested on the most dangerous NMC batteries NMC 9-0,5-0,5**

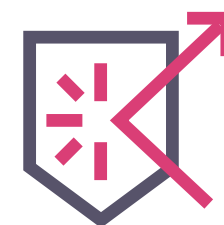
The storage cabinets complies with the **VDMA** guidelines **24994:2024-08**, according to which the cabinet can withstand extreme conditions, such as uncontrolled fires and battery explosions, while maintaining the highest safety standards.

The product is tested and certified to **VDMA** standard sheet **24994:2024-08** as an **I/O30** lithium-ion battery storage cabinet.

The certificate is issued by an independent certification body and tested by **ECB•S** - recognised cooperation partners.

### Cabinet construction

- multi-walled cabinet construction of body and door with special insulating compound
- 4-way locking bolt system
- fire-resistant seal system- special smoke and fire seals
- construction of body and door compliant with 1143-1 norm
- Intuitive diagnostic control panel with piezoelectric buttons
- automatic ventilation shut-off system in case of detection of temperature exceeding 60°C
- ventilation system for quick and safe
- connection to on-site ventilation facilities
- wentylation system minimum flow rate 30 m<sup>3</sup>



**I/O30**



**MAXIMUM  
ENERGY LOAD  
OF EACH  
STORAGE LEVEL  
3000 W**



**MAXIMUM LOAD  
CAPACITY  
ON EACH  
STORAGE LEVEL  
100 KG**



### Types of sockets

socket type  
**E**

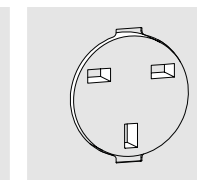
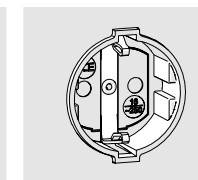
Poland  
France  
Belgium  
Czech Republic  
Slovakia

socket type  
**F**

Germany  
Austria  
Netherlands  
Sweden  
Spain  
Portugal

socket type  
**G**

United Kingdom  
Ireland  
United Arab  
Emirates  
Singapore



## Technical parameters



|                                                                    |                                                                            |               |               |                          |               |               |                           |               |               |
|--------------------------------------------------------------------|----------------------------------------------------------------------------|---------------|---------------|--------------------------|---------------|---------------|---------------------------|---------------|---------------|
| norm                                                               | VDMA                                                                       |               |               | VDMA                     |               |               | VDMA                      |               |               |
| art. no.                                                           | B470006.01.01                                                              | B470006.01.02 | B470006.01.03 | B470007.01.01            | B470007.01.02 | B470007.01.03 | B470008.01.01             | B470008.01.02 | B470008.01.03 |
| socket type                                                        | E                                                                          | F             | G             | E                        | F             | G             | E                         | F             | G             |
| amount of sockets                                                  | 5 pcs                                                                      |               |               | 15 pcs                   |               |               | 25 pcs                    |               |               |
| maximum energy of the batteries to be stored on each storage level | 3000 Wh                                                                    |               |               | 3000 Wh                  |               |               | 3000 Wh                   |               |               |
| maximum energy of the batteries to be stored in the entire cabinet | 3000 Wh                                                                    |               |               | 9000 Wh                  |               |               | 15000 Wh                  |               |               |
| maximum energy load of each storage level                          | 3000 W                                                                     |               |               | 3000 W                   |               |               | 3000 W                    |               |               |
| maximum energy load of the entire of cabinet                       | 3000 W                                                                     |               |               | 3680 W                   |               |               | 3680 W                    |               |               |
| maximum load capacity of each storage level                        | 100 kg                                                                     |               |               | 100 kg                   |               |               | 100 kg                    |               |               |
|                                                                    |                                                                            |               |               |                          |               |               |                           |               |               |
| OUTER DIMENSIONS                                                   |                                                                            |               |               |                          |               |               |                           |               |               |
| outer body height                                                  | 704 mm                                                                     |               |               | 1219 mm                  |               |               | 1919 mm                   |               |               |
| ventilation connector height                                       | min. 50 mm                                                                 |               |               | min. 50 mm               |               |               | min. 50 mm                |               |               |
| overall height                                                     | 754 mm                                                                     |               |               | 1269 mm                  |               |               | 1969 mm                   |               |               |
| body outer width                                                   | 711 mm                                                                     |               |               | 711 mm                   |               |               | 711 mm                    |               |               |
| ventilation connector width                                        | -                                                                          |               |               | 22 mm                    |               |               | 22 mm                     |               |               |
| overall width                                                      | 711 mm                                                                     |               |               | 733 mm                   |               |               | 733 mm                    |               |               |
| outer body depth                                                   | 702 mm                                                                     |               |               | 702 mm                   |               |               | 702 mm                    |               |               |
| handle depth                                                       | 60 mm                                                                      |               |               | 60 mm                    |               |               | 60 mm                     |               |               |
| overall depth                                                      | 762 mm                                                                     |               |               | 762 mm                   |               |               | 762 mm                    |               |               |
| INNER DIMENSIONS (HXWXD)                                           | 452 mm x 566 mm x 471 mm                                                   |               |               | 966 mm x 544 mm x 471 mm |               |               | 1666 mm x 544 mm x 471 mm |               |               |
| clear door opening                                                 | 374 mm x 462 mm                                                            |               |               | 889 mm x 462 mm          |               |               | 1589 mm x 462 mm          |               |               |
| amount of shelves/ strage levels                                   | 0/1                                                                        |               |               | 2/3                      |               |               | 4/5                       |               |               |
| weight                                                             | 294 Kg                                                                     |               |               | 450 Kg                   |               |               | 630 Kg                    |               |               |
|                                                                    |                                                                            |               |               |                          |               |               |                           |               |               |
| cabinet construction                                               | construction of body and door compliant with 1143-1 norm                   |               |               |                          |               |               |                           |               |               |
| door                                                               | 1 multi-walled door leaf                                                   |               |               |                          |               |               |                           |               |               |
| locking                                                            | 4-way locking bolt system                                                  |               |               |                          |               |               |                           |               |               |
| mounting holes                                                     | 2 through holes - for optional mounting of the safe to the floor           |               |               |                          |               |               |                           |               |               |
|                                                                    |                                                                            |               |               |                          |               |               |                           |               |               |
| lock                                                               | key lock - class A with 2 keys of 120 mm length or electronic lock class A |               |               |                          |               |               |                           |               |               |
| body                                                               | RAL 7035                                                                   |               |               |                          |               |               |                           |               |               |
| extension - control panel                                          | RAL 9005                                                                   |               |               |                          |               |               |                           |               |               |
| ventilation connector                                              | zinc plated steel                                                          |               |               |                          |               |               |                           |               |               |
| handle and key escutcheon                                          | black                                                                      |               |               |                          |               |               |                           |               |               |



### Diagnostic control panel

Diagnostic control panel in batrea I/O30 cabinet is equipped in:



- **set of LED lights** - for visual system information
- **set of piezoelectric buttons** - for setting the safe functions
- **Emergency shut-off system (STOP/EMERGENCY)**
- **buzzer**
- **fuse set**



### Ventilation system

- automatic closing of the ventilation flap in case of emergency
- ventilation flap position indicator for monitoring the ventilation status

The diameter of connector is **DN100**.

