# BBX072024SBS / BBX072024 / BBX072000

## 24 V - 7.2 Ah Battery Energy Storage units for DC-UPS systems and critical DC loads

- Lead-acid AGM, VRLA battery technology
- Maintenance-free
- Quick installation on DIN rail or direct on mounting plate
- Automatic detection and continuous monitoring by DCU Series DC-UPS
- Tool-free battery replacement during operation
- Communication with DCU DC-UPS via signal serial port (SBS version)
- Built-in Temperature compensation probe (SBS version)
- Suitable for backup of high inrush current DC loads and for maximum buffer times.
- Delivered fully charged from warehouse
- Built-in protection fuse plus spare

## Norms and certifications

| | |
|---|---|
| Compliance | EN 50178/VDE 0160 (PELV)<br>EN IEC 61000-6-2:2005<br>EN IEC 61000-6-3:2007+A1:2011<br>EN IEC 50581:2012 |
| Declaration of Conformity | CE, UKCA |

## Commercial data

| | |
|---|---|
| Weight per unit, including packing | 5.0 kg (0.8 kg) |
| Dimensions and Volume per unit, including packing (W x H x D) | 160 x 200 x 120 mm – 0.0038 $m^3$ |
| Custom Tarif | 85072080 |
| Country of origin | Italy |

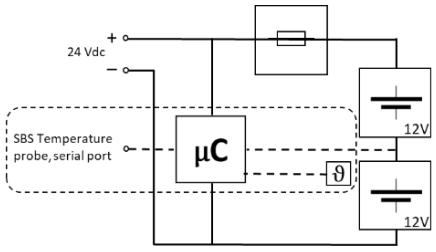


Figure 1- SBS Block Diagram

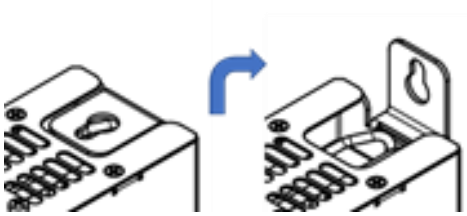

*Figure 2 - Opening flip-flange for mounting plate fastening*

| BBX072024 - 7.2 Ah - Buffer Time | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Load Current (A)** | 1.5 | 3 | 5 | 7.5 | 10 | 15 | 20 |
| **Minutes** | 200 | 120 | 55 | 30 | 20 | 9 | 7 |

*Figure 3 – Buffer Time*

## Technical Data

| Code | BBX072024SBS | BBX072024 | BBX072000 |
|---|---|---|---|
| | Battery Box with SBS temperature probe and signal connection | Basic Battery Box | Casing and inner wiring only |
| Rated Input/Output Voltage | **24 Vdc** | **24 Vdc** | **(24 Vdc)** |
| Nominal Capacity | **7.2 Ah** | | **(7.2 Ah)** |
| Battery Type | **Lead-acid AGM, VRLA** | | **-** |
| Connection in parallel | **Yes** | | **-** |
| Connection in series | **Yes** | | **-** |
| Max. permissible charging current | **2.1 A** | | **-** |
| Max permissible discharging current. | **25 A** | | **-** |
| Max Charging voltage (Fast Charge) | **28.8 V** | | **-** |
| Float Charging voltage | **27.4 V** | | **-** |
| LVD-Low Voltage Disconnection from DCU | **< 19 V** | | **-** |
| Self discharge rate | **≤3%/month** | | **-** |
| Fast Charging | **Suitable for Fast Charging** | | **-** |
| Number of blocks | **2** | | **-** |
| Number of cells per block | **6** | | **-** |
| Internal Fuse, type Mini | **25 A** | | |
| Spare Fuse type Mini | **25 A** | | |

**Signal Output/Input**

| | | | |
|---|---|---|---|
| Serial Port Communication | **UART connector** | **-** | **-** |
| Temperature compensation | **Built-in SBS Temperature probe** | **-** | **-** |

**Ambient Data**

| | | |
|---|---|---|
| Ambient Temperature (operation) | **0 °C / +40 °C** | **-** |
| Ambient Temperature Storage or transport) | **0 °C / +40 °C** | **-** |
| Max Relative Humidity (operation) | **95% RH** | **-** |
| Environment Pollution Degree EN/IEC 60947-1 | **2** | **-** |

**Mechanical Data**

| | | |
|---|---|---|
| Housing Material | **Aluminium and galvanized steel sheet** | |
| Mounting position | **Vertical on DIN rail or On Mounting plate** | |
| Connection | **Screw type terminals 0.5-16 mm² (20-6 AWG)** | |
| Dimensions (W x H x D) | **150 x 193 x 115 mm** | |
| Weight | **4.9 kg** | **0.7 kg** |

**Protection Categories**

| | |
|---|---|
| Protection degree (EN/IEC 60529) | **IP 20** |
| Protection Class EN/IEC 61140 | **III** |
| Battery Disposal | **Not in domestic disposal, follow National rules** |

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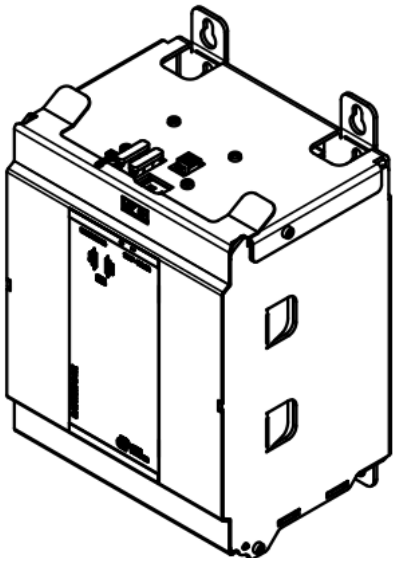
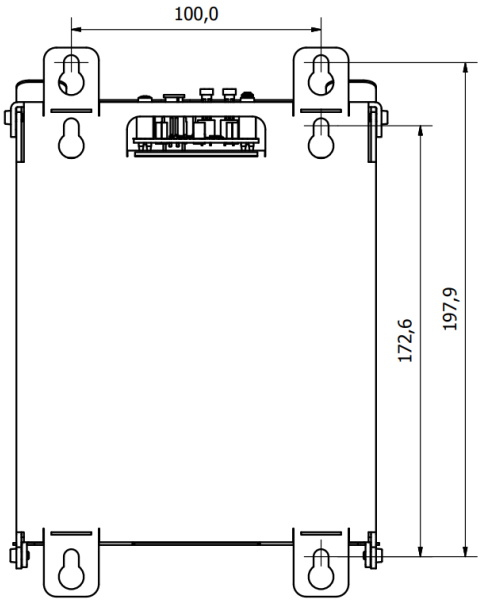
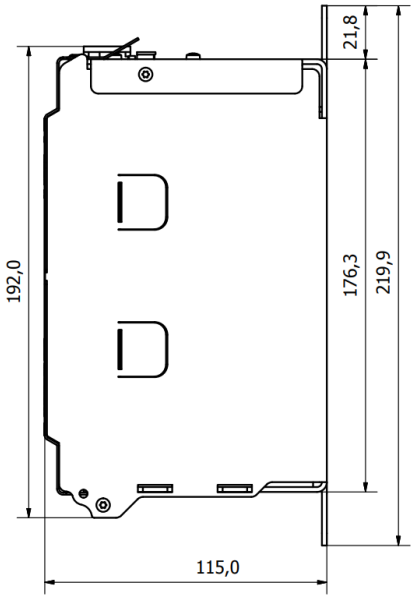
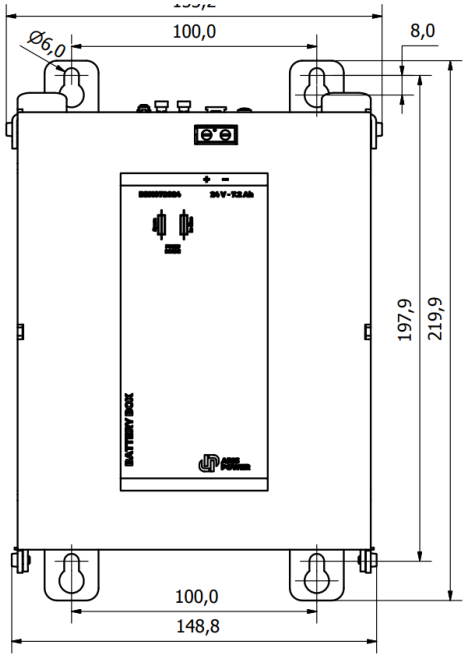
**Drawings**



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