phoenix
SAFE COMPANY LIVERPOOL

# BS1940 SERIES
# BATTERY COMMANDER PRO

VDMA 24994:2024-08 CERTIFIED



BS1943E



BS1946K


BS1945

The **BATTERY COMMANDER PRO SERIES** is certified to VDMA 24994:2024-08 standard by ECB.S and constructed to safeguard both lives and property from the potentially catastrophic consequences of Lithium battery fires. Providing a secure storage and charging solution tailored for Lithium-Ion batteries, these units mitigate the myriad of risks posed by such batteries, including thermal runaway due to temperature fluctuations, impact, or manufacturing defects. Such hazards can lead to spontaneous ignition and formidable fire outbreaks, that pose significant challenges for extinguishment.

The Battery Commander Pro Series ensures peace of mind through its sturdy double-wall construction, certified for fire resistance, impact resistance, and security. UK Police approved (Secured By Design scheme).

Customers can select from six size options, each offering either key or electronic locking mechanisms, integrated smoke detectors, reinforced insulated shelving, and built-in power outlets. Furthermore, this range includes a plinth for effortless relocation and removal from the premises in case of a fire emergency.

## FEATURES

- VDMA 24994:2024-08 Certified.
- Large volume Lithium-Ion battery storage & charging.
- Storage and charging for up to 22,500Wh of batteries.
- Robust Safe construction.
- Key or electronic locking.
- Internal temperature monitor as standard.
- Reinforced and Insulated shelving.
- Full electronic monitoring system.

| MODEL NUMBER | LOCKING OPTIONS | EXTERNAL DIMENSIONS H x W x D | SHELF CAPACITY | MAX. BATTERY CAPACITY | INTERNAL DIMENSIONS H x W x D | DOOR SWING/ HANDLE DEPTH | WEIGHT | CAPACITY | PDUs | SHELVES | DOORS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BS1941† | K/E/F | 855 x 690 x 710mm | 2500Wh | 2500Wh | 450 x 510 x 400mm | 650 / 40mm | 185kg | 91 Litres | 1x (4 Gang) | 0 | 1 |
| BS1942† | K/E/F | 995 x 690 x 710mm | 2500wh | 5000Wh | 590 x 510 x 400mm, | 650 / 40mm | 213kg | 120 Litres | 2x (4 Gang) | 1 | 1 |
| BS1943 | K/E/F | 1385 x 690 x 710mm | 2500Wh | 7500Wh | 980 x 510 x 400mm, | 650 / 40mm | 261kg | 199 Litres | 3x (4 Gang) | 2 | 1 |
| BS1944† | K/E/F | 1610 x 690 x 710mm | 2500Wh | 10000Wh | 1205 x 510 x 400mm | 650 / 40mm | 388kg | 245 Litres | 4x (4 Gang) | 3 | 1 |
| BS1945 | K/E/F | 1910 x 690 x 710mm | 2500Wh | 12500Wh | 1505 x 510 x 400mm | 650 / 40mm | 416kg | 307 Litres | 5x (4 Gang) | 4 | 1 |
| BS1946 | K/E/F | 1910 x 1125 x 710mm | 4500Wh | 22500Wh | 1505 x 945 x 400mm | 560 / 40mm | 610kg | 569 Litres | 5x (8 Gang) | 4 | 2 |

* As tested in base model. †Only available as factory order.
This information is provided as a guide only. All weights are for the product only and does not include the packaging.

2 YEAR

ECB•S
Secured by Design
SBD
Official Police Security Initiative

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## SPECIFICATIONS

- **SUITABLE FOR** – The storage and charging of all Lithium Ion batteries up 25kg, such as – power tools, garden tools, e-bikes/scooters, drones, laptop, mobile phone. Maximum storage capacities are listed in the table.
- **FIRE PROTECTION (INSIDE TO OUTSIDE)** – VDMA 24994:2024-08 Certified for a maximum shelf capacity of 2500Wh (BS1941-BS1945) to 4500Wh (BS1946) and total capacity from 2500Wh (BS1941) to 22500Wh (BS1946). See table for detailed capacity per model.

  **FIRE PROTECTION (OUTSIDE TO INSIDE)** – Factory tested to EN 14470-1 – Fire protection for 90 minutes from outside to in. NT Fire 017-120p certified – Fire protection for 120 minutes from outside to in.*
- **DROP TEST** – Fire and impact tested from 9.1 metres for resistance to the impact of falling through the burning floors of a building.
- **CHARGING** –Safely charge your Lithium batteries using the fitted power points – see table for details, with the option to add further PDUs to the pre-wired control box. Always check with your electrician to be sure not to overload your 13amp mains supply. Further 13 AMP Mains Supply or Three Phase can be added (POA).
- **VENTILATION** – Fitted as standard with air exhaust duct, for added ventilation. Dedicated ducting to the outside is also strongly recommended for the most secure and safe extraction in the event of thermal runaway.
- **SHELVING** – Supplied with reinforced and insulated height adjustable shelves capable of carrying 100kg at a time.

## ELECTRONIC MONITORING AND CONTROL UNIT

- **INTERNAL TEMPERATURE MONITOR** – For safety, the cabinet comes as standard with an external temperature warning lamp, that gives an early warning of a potential issue with a battery overheating. In the event of excessive heat inside the cabinet, the control unit immediately cuts power to chargers and sounds an alarm.
- **DOOR ALARM** – The doors are fitted with sensors to prevent the doors being left open. A buzzer will sound to warn you.
- **FIRE ALARM CONNECTION** – The control unit can be connected to the building fire alarm to trigger the building system and alert the fire brigade.
- **SIREN & STROBE** – The unit is fitted with a siren and strobe light that is triggered in the event of overheat or thermal runaway. Power to the cabinet will also be cut and no charging will take place until the cabinet is back in normal working range.
- **WARNING LABELS** – Fitted with warning labels in accordance with ISO 3864 and ISO 7010, as well as the European directive 92/58/EEC.
- **MULTIPOINT LOCKING** – Fitted with an advanced reinforced multipoint locking system that securely seal the doors. Even in the event of the most severe battery explosion, the doors will remain securely closed.
- **CONSTRUCTION** – Double wall safe construction with internal fill of our patented Styronite F insulation, provides a safe of great strength and fire/heat resistance, for maximum protection against internal explosion caused during thermal runaway.
- **CE CERTIFIED** – The BS1940 series complete electronic control system is fully CE certified.
- **PLINTH** – to allow easy movability and removal from the building in the event of a fire situation. The plinth is supplied with a front cover to provide a neat exterior finish.
- **2 YEAR GUARANTEE** – Two year materials and labour warranty.

## LOCKING OPTIONS

**BS1940K** – Fitted with a high quality key lock with two keys.

**BS1940E** – Fitted with an advanced high security electronic lock with clear LED display, dual control, hidden code and scrambled code that can be programmed as standard. The lock can further be upgraded to incorporate multiple user audit trail so that user's usage can be monitored.

**BS1940F** – Fitted with an advanced high security touchscreen keypad & fingerprint lock with clear LED display, battery Indicator, internal alarm, multi user codes, dual mode, hidden code and scrambled code that can be programmed as standard with up to 32 fingerprints.

## OPTIONAL FEATURES

- SP Safe Monitor
  For enhanced safety, the cabinet can be fitted with an internal temperature and humidity monitor linked to a mobile app, alerting you if the maximum set temperature is breached. Features include a Real Time Clock (RTC), offline storage for 128 records, OTA updates aligned with EN18031, enhanced security mechanisms and optimised status detection. CE certified under the EU Radio Equipment Directive.
- Fire Suppression
  Specially formulated condensed aerosol fire extinguishing for rapid and effective fire suppression, specifically designed for Lithium Ion batteries.

FirePro.








