

**General purpose batteries**

*12 volt range*

With a range of well over 50 models, pbq offers one of the widest selections in the battery industry. The batteries are designed with the cost and quality conscious user in mind offering an excellent price/performance ratio. The functional life is 4-5 years at an operating temperature of 25°C.

**Typical applications:**

- toys
- household appliances
- sensors
- UPS systems
- integrated emergency power supplies
- telecommunication equipment
- garden tools

**VdS approved VRLA Batteries**

The VdS-approved pbq batteries form a special range that has been tested and qualified by the German VdS institute. The concept behind VdS recognition; ensuring tested and certified quality in the products and services being offered in the safety and security markets, is of equally advantageous for user and supplier.

**Flame Retardant ABS Casing**

All VdS models are accomplished in Flame Retardant ABS casing (V0). Due to the right choice of the flame retardant, the batteries remain RoHS Compliant.

**VdS Models**

| Model pbq...   | Capacity in Ah | VdS Number |
|----------------|----------------|------------|
| pbq 1,2-12 VdS | 1,2            | G104102    |
| pbq 2,3-12 VdS | 2,3            | G104103    |
| pbq 3,2-12 VdS | 3,2            | G104104    |
| pbq 7-12 VdS   | 7              | G104049    |
| pbq 12-12 VdS  | 12             | G104087    |
| pbq 18-12 VdS  | 18             | G104088    |
| pbq 26-12 VdS  | 26             | G104089    |
| pbq 40-12 VdS  | 40             | G104090    |
| pbq 65-12F VdS | 65             | G108087    |

**Models available**

| Model pbq...   | Capacity in Ah | Dimensions (±2mm) (LxWxH1/H2) | Weight |
|----------------|----------------|-------------------------------|--------|
| pbq 0.8-12     | 0,8            | 96x25x62mm                    | 340gr  |
| pbq 1.2-12 VdS | 1,2            | 97x48x52/58mm                 | 630gr  |
| pbq 1.3-12     | 1,3            | 97x48x52/58mm                 | 630gr  |
| pbq 2.3-12 VdS | 2,3            | 178x35x61/67mm                | 990gr  |
| pbq 2.6-12     | 2,6            | 178x34x61/67mm                | 990gr  |
| pbq 2.9-12     | 2,9            | 79x55.5x98.5/102mm            | 1.05kg |
| pbq 3.2-12 VdS | 3,2            | 134x67x61/67mm                | 1.3kg  |
| pbq 3.4-12     | 3,4            | 134x67x61/67mm                | 1.3kg  |
| pbq 4-12       | 4              | 195x47x70/74mm                | 1.62kg |
| pbq 5.2-12     | 5,2            | 90x70x102/106mm               | 1.7kg  |
| pbq 7-12 VdS   | 7              | 151x65x93.5/100mm             | 2.32kg |
| pbq 12-12 VdS  | 12             | 151x98x95/101mm               | 3.67kg |
| pbq 18-12 VdS  | 18             | 181x76x166mm                  | 6.15kg |
| pbq 26-12 VdS  | 26             | 175x166x125mm                 | 9.6kg  |
| pbq 28-12W     | 28             | 165x125x175mm                 | 9.3kg  |
| pbq 40-12 VdS  | 40             | 197x165x171mm                 | 14.3kg |
| pbq 65-12F VdS | 65             | 350x167x179/186mm             | 21.2kg |

**Typical applications:**

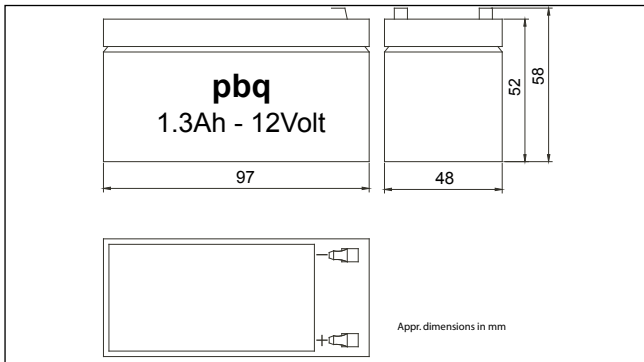
- VdS & NCP approved alarm systems
- Fire & burglar alarmsystems

**Quality Control**

All pbq batteries are being produced against ISO 9001 and UL quality control standards. Furthermore, batteries are inspected again using a method of statistical analyses upon arrival in the central warehouses. At pbq we understand that a defective battery can mean loss of information, productivity, customers and increased service cost, all 'features' you can do without!



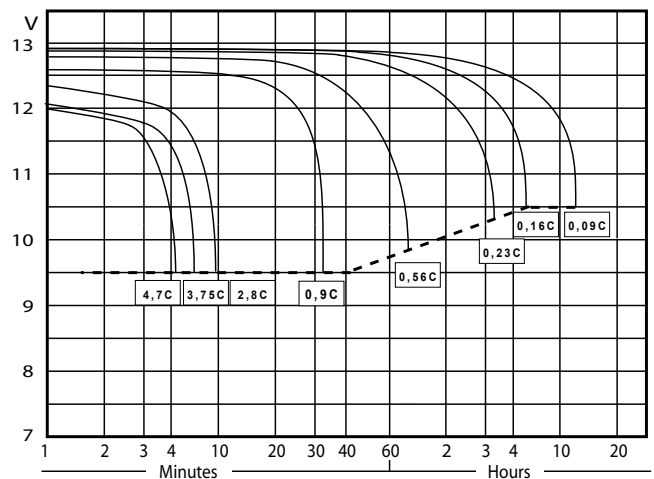
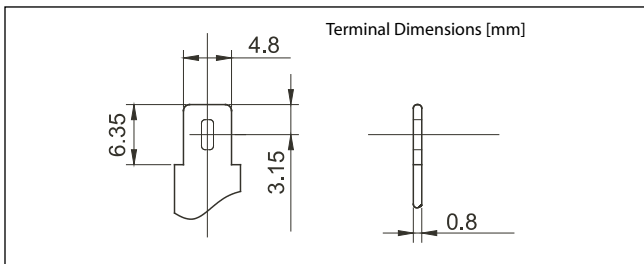
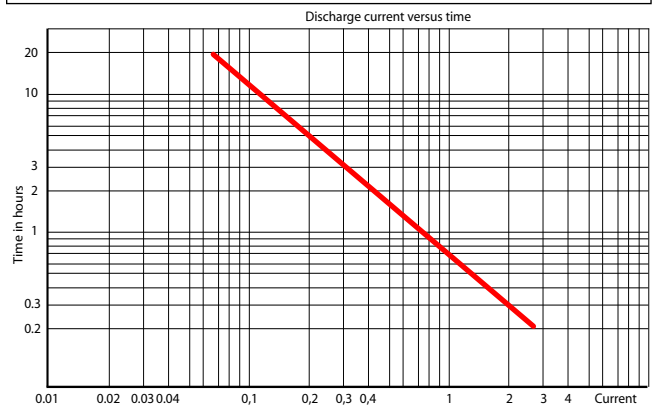
*12 volt General Purpose family*



|                    |                                |
|--------------------|--------------------------------|
| Voltage            | : 12 Volt                      |
| Capacity           | : 1.3Ah                        |
| Appr. dimensions   | : 97x48x52/58mm (LxWxH) (±2mm) |
| Terminal           | : Faston 187                   |
| Container & lid    | : ABS                          |
| Approximate weight | : 630gr                        |
| Certificate(s)     | : CE, UL                       |

- Typical Applications:**
- Toys
  - Fire & burglar alarmsystems
  - Household appliances
  - Garden tools
  - Telephone exchanges
  - Sensors
  - Measurement devices

|  |          |
|--|----------|
| <b>Capacity</b>                                      |          |
| 20 hour rate (65mA)                                  | : 1.3Ah  |
| 10 hour rate (115mA)                                 | : 1.15Ah |
| 5 hour rate (220mA)                                  | : 1.1Ah  |
| 1 hour rate (830mA)                                  | : 0.83Ah |
| <b>Internal Resistance (fully charged)</b> : 105mOhm |          |
| <b>Capacity versus temperature</b>                   |          |
| 40°C   | : 102%   |
| 25°C   | : 100%   |
| 0°C  | : 85%    |
| -15°C  | : 65%    |
| <b>Max. discharge current</b> : 18A (5 sec)          |          |
| <b>Charge (constant voltage)</b>                     |          |
| Maximum charge current 0.48A                         |          |
| Float use: 13.6 - 13.8 Volt. -20mV/°C                |          |
| Cyclic use: 14.5 - 14.9 Volt. -30mV/°C               |          |



Discharge data watt/battery

|             | Discharge time | 5 min | 10 min | 15 min | 30 min | 1 hr  | 3 hr | 5 hr |
|-------------|----------------|-------|--------|--------|--------|-------|------|------|
| End Voltage | 10,80          | 43,74 | 28,38  | 23,4   | 13,5   | 8,22  | 3,6  | 2,58 |
|             | 10,50          | 47,28 | 30,54  | 25,08  | 14,4   | 8,7   | 3,72 | 2,64 |
|             | 10,20          | 50,82 | 32,7   | 26,76  | 15,3   | 9,12  | 3,84 | 2,7  |
|             | 9,90           | 54,42 | 34,86  | 28,38  | 16,14  | 9,6   | 3,9  | 3,84 |
|             | 9,60           | 58,02 | 37,02  | 30     | 16,98  | 10,02 | 4,02 | 2,82 |