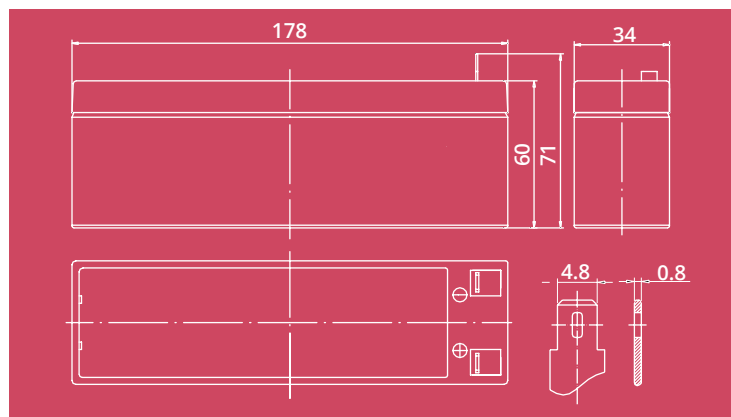




## Basic Specifications

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Voltage:               | 12 Volt                                                           |
| Capacity:              | 20 hour rate: 2.6Ah<br>10 hour rate: 2.4Ah<br>5 hour rate: 1.69Ah |
| Design life:           | 3-5 years                                                         |
| Appr. dimensions:      | 178x34x60/71mm (LxWxH) (±2mm)                                     |
| Terminal:              | Faston Tab 4.8mm T1                                               |
| Container & lid:       | ABS                                                               |
| Internal Resistance:   | 35mΩ (Fully charged)                                              |
| Approximate weight:    | 0.94kg                                                            |
| Max charge current:    | 0.78A                                                             |
| Max discharge current: | 39A (5 sec.)                                                      |
| Operating temp. range: | -20°C ~ +50°C                                                     |
| Self discharge:        | lower than 3% per month                                           |

## Typical Applications

- Security systemens / Emergency lighting
- UPS / Emergency Power
- Household appliances
- Traffic sensors
- Telecommunication
- Garden tools
- Toys

## Discharge data in Watts per battery (25°C)

|             | (V/cell) | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr | 3 Hr | 5 Hr | 10 Hr | 20 Hr |
|-------------|----------|-------|--------|--------|--------|------|------|------|-------|-------|
| End Voltage | 1.80V    | 92,6  | 59,1   | 48,4   | 28,2   | 17,8 | 7,49 | 5,12 | 2,84  | 1,53  |
|             | 1.75V    | 98,1  | 62,6   | 51,1   | 29,3   | 18,4 | 7,72 | 5,28 | 2,90  | 1,56  |
|             | 1.70V    | 103   | 65,5   | 52,9   | 30     | 18,8 | 7,78 | 5,31 | 2,92  | 1,57  |
|             | 1.65V    | 107   | 68,3   | 55     | 31     | 19,3 | 7,83 | 5,35 | 2,93  | 1,58  |
|             | 1.60V    | 110   | 70,4   | 56,3   | 31,6   | 19,6 | 7,88 | 5,38 | 2,95  | 1,58  |

## Discharge data in Amperes (25°C)

|             | (V/cell) | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr | 3 Hr | 5 Hr | 10 Hr | 20 Hr |
|-------------|----------|-------|--------|--------|--------|------|------|------|-------|-------|
| End Voltage | 1.80V    | 8,3   | 5,24   | 4,25   | 2,46   | 1,54 | 0,63 | 0,43 | 0,24  | 0,13  |
|             | 1.75V    | 8,79  | 5,55   | 4,49   | 2,55   | 1,59 | 0,65 | 0,44 | 0,24  | 0,13  |
|             | 1.70V    | 9,19  | 5,8    | 4,64   | 2,62   | 1,62 | 0,65 | 0,45 | 0,24  | 0,13  |
|             | 1.65V    | 9,58  | 6,05   | 4,82   | 2,7    | 1,66 | 0,66 | 0,45 | 0,24  | 0,13  |
|             | 1.60V    | 9,88  | 6,24   | 4,94   | 2,76   | 1,69 | 0,66 | 0,45 | 0,25  | 0,13  |

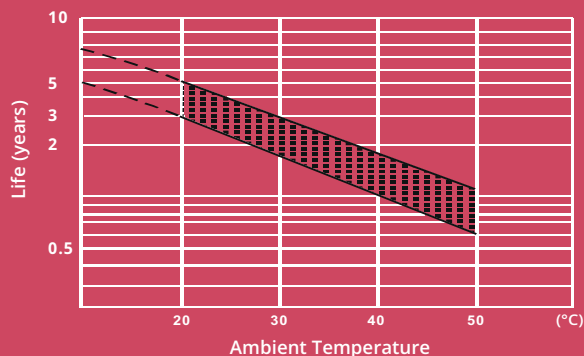
## General purpose batteries

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. pbq has a full series of 6 and 12 Volt models available for a wide range of applications and intents to keep this range in production for many years to come. These General Purpose batteries have been designed for a functional life of 4-5 years at an operating temperature of 25°C in a standby application.

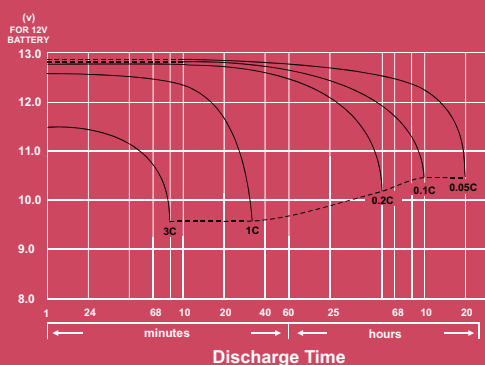
## Features

- Absorbent Glassmat Technology
- Low self discharge
- Classified as non-spillable and Non Dangerous goods by IATA, FAA, ADR, IMDG
- Can be discharged or stored in any position without leakage
- Cannot be charged while terminal is downward

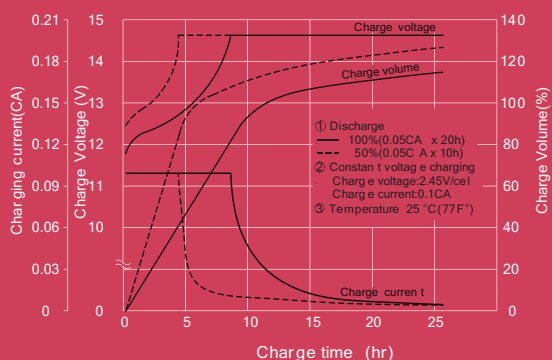
## Design Life



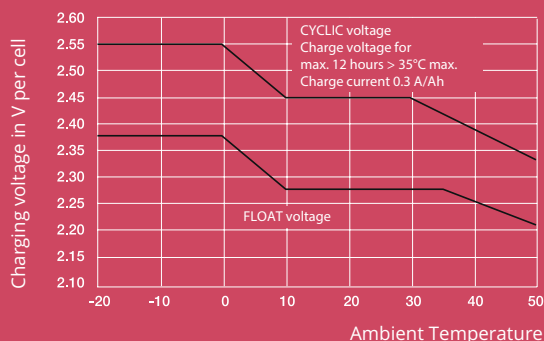
## Discharge time VS. discharge current (25°C)



## Battery Charging Characteristics



## Battery Charging Characteristics



## Models available

| Model pbq           | Capacity in Ah | Dimensions (±2mm) (LxWxH1/H2) | Weight  |
|---------------------|----------------|-------------------------------|---------|
| pbq 3.5-4           | 3.5            | 91 x 35 x 64                  | 0.46 kg |
| pbq 1.2-6           | 1.2            | 97 x 24 x 58                  | 0.31 kg |
| pbq 3.2-6           | 3.2            | 134 x 35 x 67                 | 0.71 kg |
| pbq 4.5-6           | 4.5            | 70 x 47 x 107                 | 0.75 kg |
| pbq 7-6             | 7              | 151 x 34 x 100                | 1.20 kg |
| pbq 12-6            | 12             | 151 x 50 x 100                | 1.85 kg |
| pbq 0.8-12          | 0.8            | 96 x 25 x 62                  | 0.40 kg |
| pbq 1.2-12*         | 1.2            | 97 x 43 x 58                  | 0.54 kg |
| pbq 1.3-12          | 1.3            | 97 x 48 x 57                  | 0.63 kg |
| pbq 2.3-12*         | 2.3            | 178 x 35 x 67                 | 0.88 kg |
| pbq 2.3-12C         | 2.3            | 182 x 23 x 61                 | 0.73 kg |
| pbq 2.6-12S         | 2.6            | 70 x 48 x 104                 | 0.85 kg |
| pbq 2.6-12          | 2.6            | 178 x 34 x 71                 | 0.92 kg |
| pbq 2.9-12          | 2.9            | 79 x 56 x 105                 | 1.05 kg |
| pbq 3.2-12*         | 3.2            | 134 x 67 x 67                 | 1.30 kg |
| pbq 3.4-12          | 3.4            | 134 x 67 x 67                 | 1.30 kg |
| pbq 4-12            | 4              | 195 x 47 x 76                 | 1.58 kg |
| pbq 5.2-12          | 5.2            | 90 x 70 x 107                 | 1.65 kg |
| pbq 7-12*           | 7              | 151 x 65 x 102                | 2.20 kg |
| pbq 7-12L*          | 7              | 151 x 65 x 102                | 2.20 kg |
| pbq 12-12*          | 12             | 151 x 98 x 98                 | 3.75 kg |
| pbq 18-12*          | 18             | 181 x 76 x 167                | 5.60 kg |
| pbq 26-12*          | 26             | 165 x 176 x 127               | 9.30 kg |
| pbq 28-12 T2        | 28             | 165 x 125 x 175               | 8.60 kg |
| pbq 40-12*          | 40             | 197 x 165 x 170               | 13.5 kg |
| pbq 65-12*          | 65             | 350 x 167 x 186               | 22.0 kg |
| <b>* VdS models</b> |                |                               |         |

## Certificates



## 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 Retardants ABS casing. Due to the right choice of the flame retardant, the batteries remain RoHS Compliant.