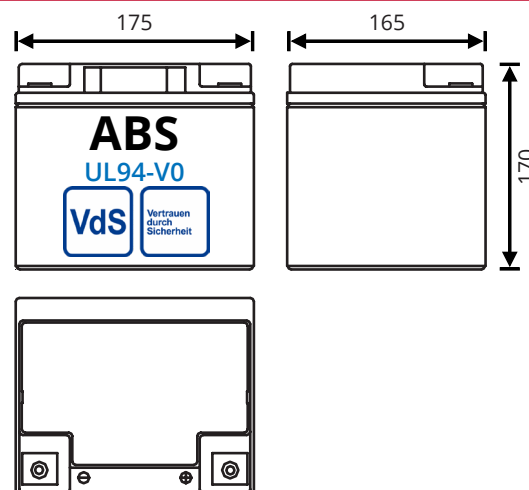
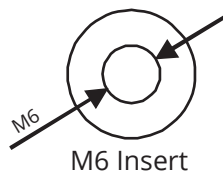


40-12 - General Purpose Series

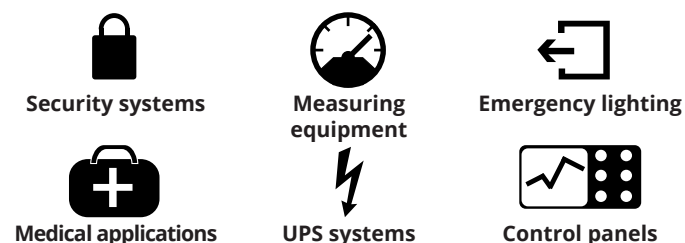
VRLA Battery



Technical Specifications

| | |
|----------------------------------|-----------------------------|
| Nominal voltage | 12 V |
| Nominal capacity (1.70V/c, 25°C) | 20Hr: 42.6 Ah |
| | 5Hr: 35.3 Ah |
| | 1Hr: 23.8 Ah |
| Internal resistance | ≤10mΩ (fully charged) |
| Maximum charge current | 12 A |
| Maximum discharge current | 400 A (max. 5 sec) |
| Float use / cyclic use | 13.5 - 13.8V / 14.5 - 14.9V |
| Charge temperature range | -10°C ~ 50°C |
| Discharge temperature range | -15°C ~ 50°C |
| Design life (20°C) | 3-5 years (Eurobat) |
| VdS Certificate no. | G108011 |
| Standard terminal | Insert M6 (7 Nm torque) |
| Housing material | ABS (UL94-V0) |
| Dimensions Length | 197 mm |
| Dimensions Width | 165 mm |
| Dimensions Height | 170 mm |
| Approximate Weight | 12.5 kg |
| Packing | 1 pcs / box |

Typical applications



Features

- Absorbent Glassmat Technology (AGM)
- Valve Regulated Lead Acid (VRLA)
- Maintenance free
- UL94-V0 Flame resistant casing
- VdS certified
- 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 terminals are downwards

Constant Current Discharge (Amps) at 25°C (77°F)

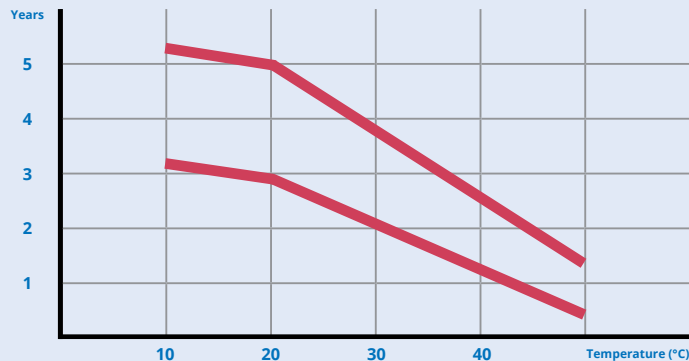
| F.V/TIME | 5 Min | 10 Min | 15 Min | 30 Min | 60 Min | 2 Hr | 5 Hr | 10 Hr | 20 Hr |
|------------|-------|--------|--------|--------|--------|------|------|-------|-------|
| 1.80V/cell | N/A | 70.6 | 56.8 | 35.7 | 22.6 | 13.8 | 6.79 | 4.00 | 2.10 |
| 1.75V/cell | N/A | 74.8 | 59.9 | 37.1 | 23.3 | 14.2 | 7.00 | 4.03 | 2.11 |
| 1.70V/cell | N/A | 78.1 | 62.0 | 38.0 | 23.8 | 14.4 | 7.05 | 4.05 | 2.13 |
| 1.65V/cell | N/A | 81.5 | 64.4 | 39.2 | 24.4 | 14.5 | 7.10 | 4.06 | 2.13 |
| 1.60V/cell | N/A | 84.0 | 66.0 | 40.0 | 24.8 | 14.6 | 7.14 | 4.07 | 2.14 |

Constant Power Discharge (Watts) per Cell* at 25°C (77°F)

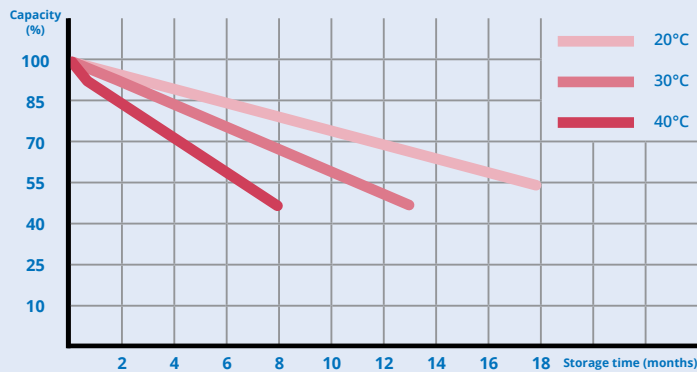
| F.V/TIME | 5 Min | 10 Min | 15 Min | 30 Min | 60 Min | 2 Hr | 5 Hr | 10 Hr | 20 Hr |
|------------|-------|--------|--------|--------|--------|------|------|-------|-------|
| 1.80V/cell | N/A | 127.0 | 103.8 | 66.8 | 43.0 | 26.7 | 13.4 | 7.97 | 4.20 |
| 1.75V/cell | N/A | 134.5 | 109.7 | 69.3 | 44.3 | 27.3 | 13.8 | 8.02 | 4.23 |
| 1.70V/cell | N/A | 140.7 | 113.5 | 71.0 | 45.2 | 27.8 | 13.9 | 8.07 | 4.25 |
| 1.65V/cell | N/A | 146.7 | 117.8 | 73.3 | 46.3 | 28.0 | 14.0 | 8.08 | 4.27 |
| 1.60V/cell | N/A | 151.2 | 120.8 | 74.8 | 47.2 | 28.2 | 14.1 | 8.10 | 4.28 |

*: Battery consists of 6 cells

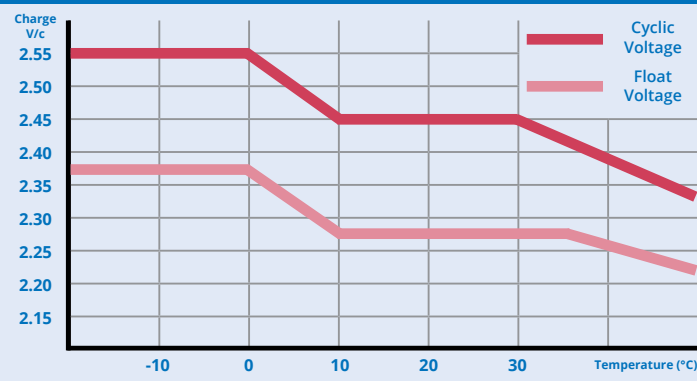
Service life vs Temperature



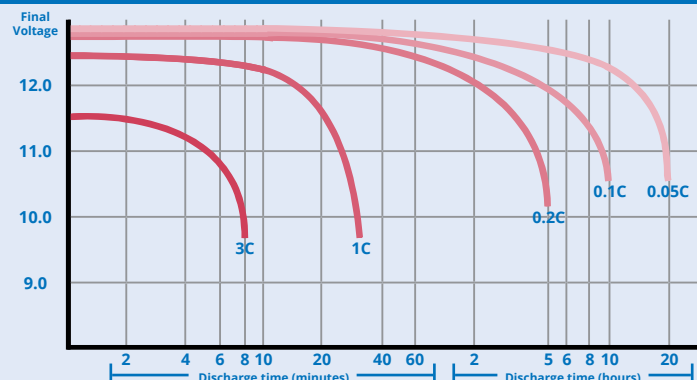
Self-discharge characteristics



Charge Voltage vs Temperature



Discharge characteristics



Certifications and Standards



General purpose series

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 intends 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.

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

The following batteries from the pbq General Purpose series have been VdS approved: pbq 1.2-12, pbq 2.3-12, pbq 3.2-12, pbq 7-12, pbq 7-12L, pbq 12-12, pbq 18-12, pbq 26-12, pbq 40-12 & pbq 65-12.

Available models

Scan the QR-code below for an overview of the available models in the pbq General Purpose series.

