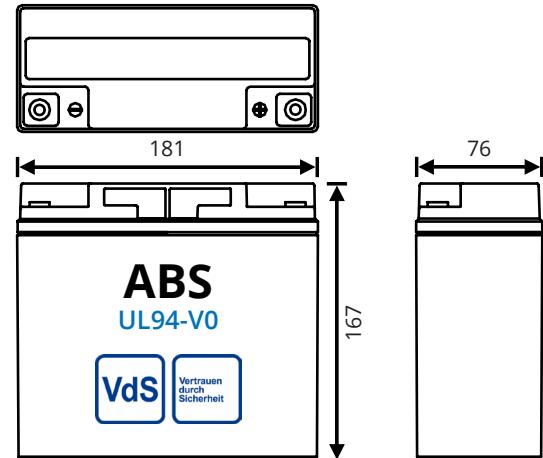
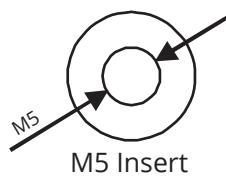


## 18-12 - General Purpose Series

VRLA Battery



### Technical Specifications

<b>Nominal voltage</b>	12 V
<b>Nominal capacity (1.70V/c, 25°C)</b>	20Hr: 18.9 Ah
	5Hr: 15.6 Ah
	1Hr: 11.0 Ah
<b>Internal resistance</b>	≤10.5mΩ (fully charged)
<b>Maximum charge current</b>	5.4 A
<b>Maximum discharge current</b>	270 A (max. 5 sec)
<b>Float use / cyclic use</b>	13.5 - 13.8V / 14.4 - 15.0V
<b>Charge temperature range</b>	-15°C ~ 40°C
<b>Discharge temperature range</b>	-15°C ~ 50°C
<b>Design life (20°C)</b>	3-5 years (Eurobat)
<b>VdS Certificate no.</b>	G115077
<b>Standard terminal</b>	Insert M5 (6 Nm torque)
<b>Housing material</b>	ABS (UL94-V0)
<b>Dimensions Length</b>	181 mm
<b>Dimensions Width</b>	76 mm
<b>Dimensions Height</b>	167 mm
<b>Approximate Weight</b>	5.60 kg
<b>Packing</b>	2 pcs / box

### Typical applications

Security systems	Measuring equipment	Emergency lighting
Medical applications	UPS systems	Control panels

### Features

- Absorbent Glassmat Technology (AGM)
- Valve Regulated Lead Acid (VRLA)
- Maintenance free
- UL94-V0 Flame resistant casing
- UL registered & 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	68.3	41.8	34.6	18.7	10.3	6.23	3.02	1.77	0.91
1.75V/cell	71.9	44.3	36.3	19.8	10.7	6.39	3.07	1.80	0.93
1.70V/cell	75.1	46.5	37.7	20.7	11.0	6.53	3.11	1.82	0.95
1.65V/cell	77.8	48.4	38.8	21.4	11.3	6.64	3.14	1.84	0.96
1.60V/cell	80.2	50.1	39.7	21.9	11.5	6.72	3.16	1.85	0.96

### 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	116.0	77.1	64.5	35.1	19.8	12.4	6.05	3.52	1.83
1.75V/cell	128.0	84.5	69.4	37.7	20.7	12.7	6.17	3.60	1.88
1.70V/cell	135.0	89.1	72.5	39.4	21.3	13.1	6.27	3.67	1.92
1.65V/cell	139.0	91.7	74.2	40.3	21.8	13.3	6.35	3.72	1.95
1.60V/cell	141.0	92.9	75.1	40.8	22.2	13.5	6.41	3.75	1.96

\*: Battery consists of 6 cells

## 18-12 - General Purpose Series

VRLA Battery

### Service life vs Temperature



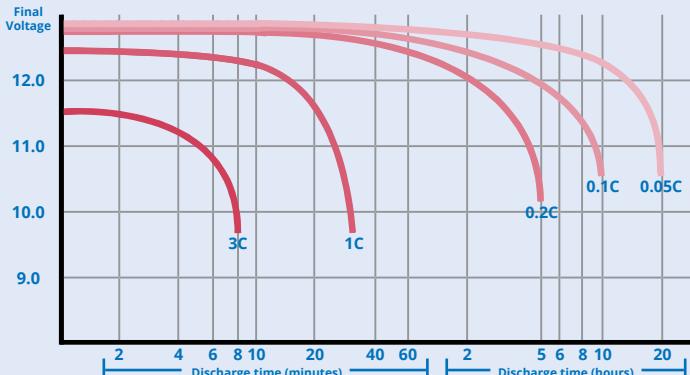
### Self-discharge characteristics



### 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 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.

### 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.

