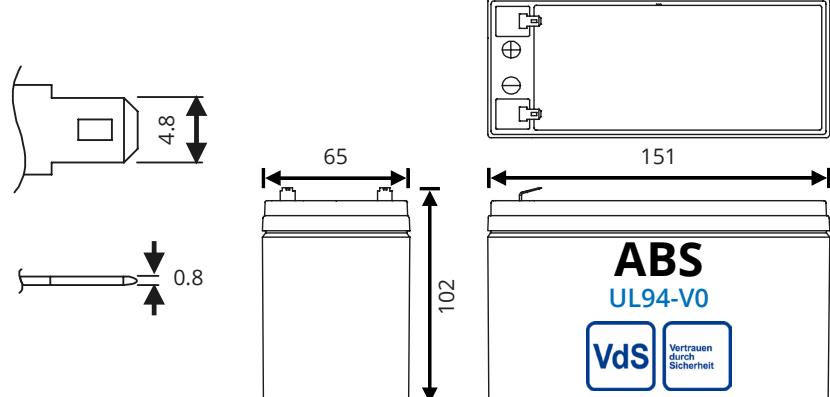


7-12 - General Purpose Series

VRLA Battery



Technical Specifications

Nominal voltage	12 V
Nominal capacity (1.70V/c, 25°C)	20Hr: 7.06 Ah
	5Hr: 6.25 Ah
	1Hr: 4.52 Ah
Internal resistance	≤19mΩ (fully charged)
Maximum charge current	2.1 A
Maximum discharge current	105 A (max. 5 sec)
Float use / cyclic use	13.5 - 13.8V / 14.4 - 15.0V
Charge temperature range	-15°C ~ 40°C
Discharge temperature range	-15°C ~ 50°C
Design life (20°C)	3-5 years (Eurobat)
VdS Certificate no.	G115001
Standard terminal	Faston 4.8mm (T1)
Housing material	ABS (UL94-HB)
Dimensions Length	151 mm
Dimensions Width	65 mm
Dimensions Height	102 mm
Approximate Weight	2.2 kg
Packing	8 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	26.2	17.3	13.1	7.05	4.25	2.38	1.16	0.675	0.346
1.75V/cell	27.8	18.1	13.5	7.28	4.41	2.45	1.21	0.682	0.350
1.70V/cell	29.1	18.6	13.8	7.47	4.52	2.49	1.25	0.687	0.353
1.65V/cell	30.5	19.2	14.1	7.68	4.63	2.54	1.28	0.694	0.357
1.60V/cell	31.7	19.8	14.3	7.85	4.71	2.57	1.29	0.698	0.359

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	47.0	31.8	25.2	12.9	8.38	4.52	2.53	1.40	0.705
1.75V/cell	49.0	33.2	25.8	13.6	8.63	4.72	2.58	1.42	0.718
1.70V/cell	51.0	34.3	26.5	14.1	8.87	4.92	2.62	1.43	0.728
1.65V/cell	52.8	35.5	27.3	14.4	9.08	5.07	2.65	1.44	0.737
1.60V/cell	54.3	36.5	28.0	14.6	9.23	5.20	2.68	1.45	0.743

*: Battery consists of 6 cells

7-12 - General Purpose Series

VRLA Battery

Service life vs Temperature



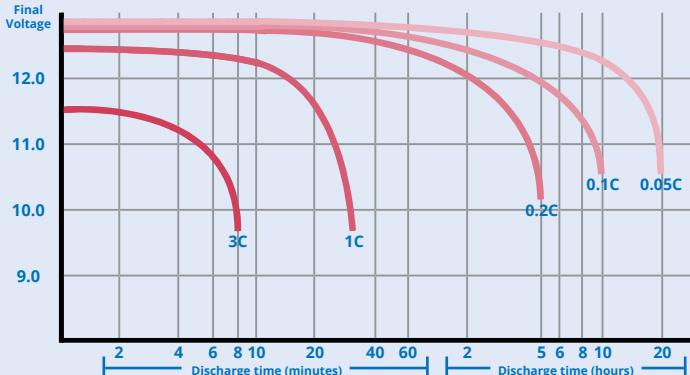
Self-discharge characteristics



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.

