

## Basic Specifications

Voltage:	12 Volt
Capacity:	20 hour rate: 3.2Ah 10 hour rate: 3.1Ah 5 hour rate: 2.8Ah
Design life:	3-5 years
Appr. dimensions:	134x67x61/67mm (LxWxH) (±2mm)
Terminal:	Faston Tab 4.8mm T1
Container & lid:	Flame retardant ABS
Internal Resistance:	68mΩ (Fully charged)
Approximate weight:	1.3kg
Max charge current:	1.28A
Max discharge current:	160A (5 sec.)
Operating temp. range:	-20°C ~ +50°C
Self discharge:	lower than 3% per month

## 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 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.

## Typical Applications

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

## 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

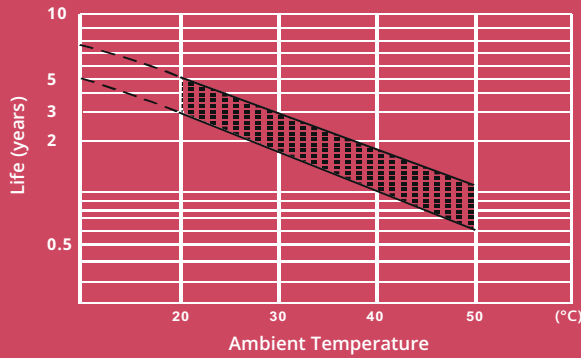
## Discharge data in Watts per battery (25°C)

	(V/cell)	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
End Voltage	1.80V	17,2	11,7	9,15	5,64	3,33	1,57	1,11		
	1.75V	18,6	12,5	9,79	6,01	3,53	1,62	1,14		
	1.70V	20	13,4	10,4	6,38	3,71	1,67	1,16		
	1.65V	21,4	14,3	11,1	6,74	3,89	1,72	1,19		
	1.60V	22,8	15,2	11,7	7,1	4,06	1,76	1,21		

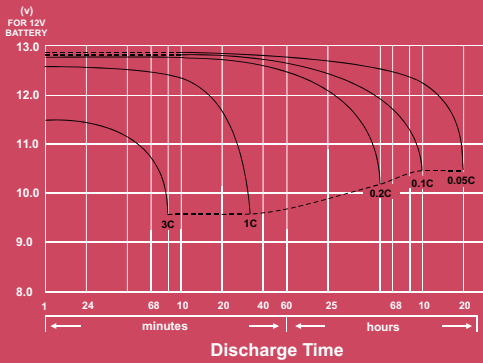
## Discharge data in Amperes (25°C)

	(V/cell)	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
End Voltage	1.80V	9,39	6,98	4,92	3,03	1,75	0,75	0,54	0,3	0,16
	1.75V	10,1	7,42	5,21	3,2	1,84	0,79	0,56	0,31	0,16
	1.70V	11,5	7,86	5,5	3,36	1,92	0,82	0,58	0,32	0,16
	1.65V	12,2	8,29	5,77	3,51	2,01	0,85	0,59	0,32	0,16
	1.60V	12,9	8,71	6,04	3,66	2,08	0,88	0,61	0,33	0,17

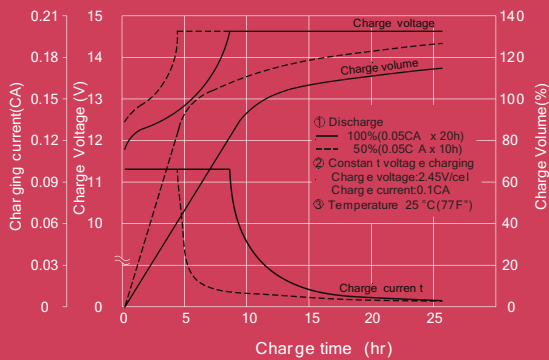
### Design Life



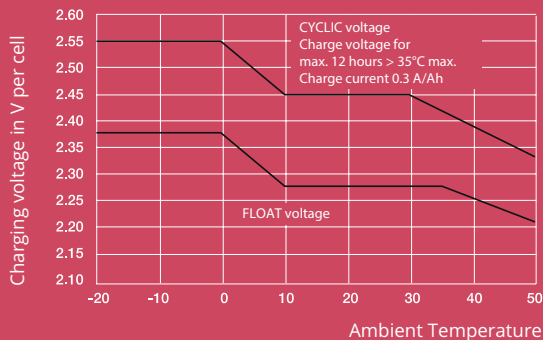
### Discharge time VS. discharge current (25C)



### 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

\* VdS models

### 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.