

## Basic Specifications

Voltage:	12 Volt
Capacity:	20 hour rate: 18Ah 10 hour rate: 17.1Ah 5 hour rate: 15.3Ah
Design life:	3-5 years
Appr. dimensions:	181x77x167mm (LxWxH) (±2mm)
Terminal:	M5 insert
Container & lid:	Flame retardant ABS
Internal Resistance:	10.5mΩ (Fully charged)
Approximate weight:	5.6kg
Max charge current:	5.4A
Max discharge current:	270A (5 sec.)
Operating temp. range:	min 15°C plus 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 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.

## 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

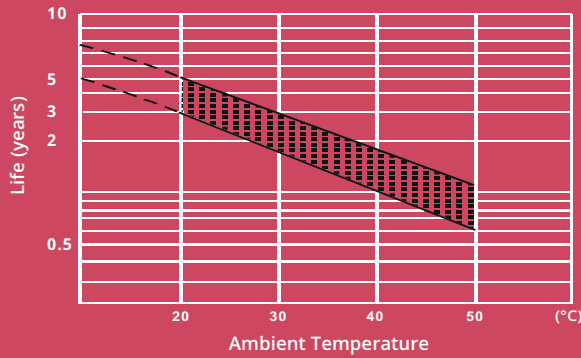
## Discharge data in Watts per battery (25°C)

	(V/cell)	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
End Voltage	1.80V	409	335	195	124	51,9	35,4	19,7	10,6
	1.75V	434	354	203	127	53,5	36,5	20,1	10,8
	1.70V	453	366	208	130	53,8	36,8	20,2	10,9
	1.65V	473	381	214	133	54,2	37,0	20,3	10,9
	1.60V	487	390	219	135	54,5	37,3	20,4	11

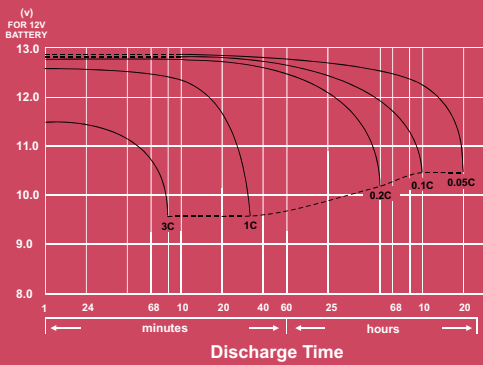
## Discharge data in Amperes (25°C)

	(V/cell)	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
End Voltage	1.80V	36,3	29,4	17,0	10,7	4,37	2,97	1,64	0,88
	1.75V	38,4	31,1	17,7	11,0	4,5	3,06	1,67	0,9
	1.70V	40,2	32,1	18,1	11,2	4,53	3,08	1,68	0,91
	1.65V	41,9	33,4	18,7	11,5	4,56	3,1	1,96	0,91
	1.60V	43,2	34,2	19,1	11,7	4,59	3,12	1,7	0,91

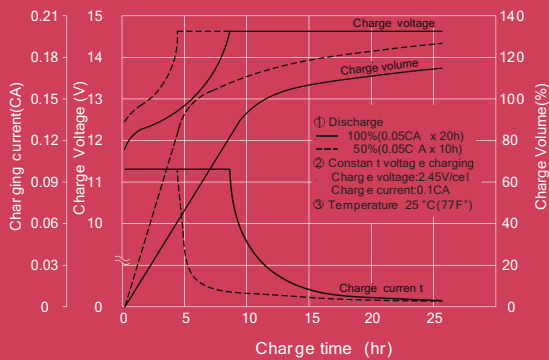
### Design Life



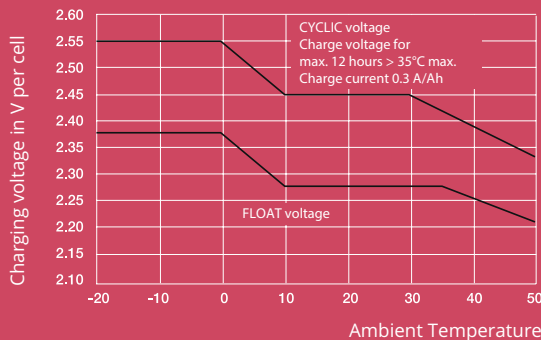
### Discharge time VS. discharge current (25C)



### 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.