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## Basic Specifications

Voltage:	12 Volt
Capacity:	20 hour rate: 40Ah 10 hour rate: 38Ah 5 hour rate: 35Ah
Design life:	3-5 years
Appr. dimensions:	197x165x170mm (LxWxH) (±2mm)
Terminal:	M6 insert
Container & lid:	Flame retardant ABS
Internal Resistance:	8.5mΩ (Fully charged)
Approximate weight:	13.5kg
Max charge current:	12A
Max discharge current:	400A (5 sec.)
Operating temp. range:	-20°C ~ +50°C
Self discharge:	lower than 3% per month

## Typical Applications

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

## 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
<b>End Voltage</b>	1.80V	762	623	401	258	114	80,3	47,8	25,2
	1.75V	807	658	416	266	118	82,7	48,1	25,4
	1.70V	844	681	426	271	118	83,3	48,4	25,5
	1.65V	880	707	440	278	119	83,9	48,5	25,6
	1.60V	907	725	449	283	120	84,4	48,6	25,7

## Discharge data in Amperes (25°C)

	(V/cell)	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
<b>End Voltage</b>	1.80V	70,6	56,8	35,7	22,6	9,7	6,79	4	2,1
	1.75V	74,8	59,9	37,1	23,3	10	7	4,03	2,11
	1.70V	78,1	62	38	23,8	10,1	7,05	4,05	2,13
	1.65V	81,5	64,4	39,2	24,4	10,1	7,1	4,06	2,13
	1.60V	84	66	40	24,8	10,2	7,14	4,07	2,14

## 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.

### 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.

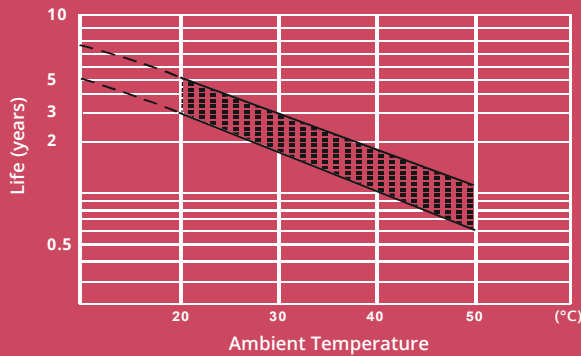
### Flame Retardant ABS casing

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

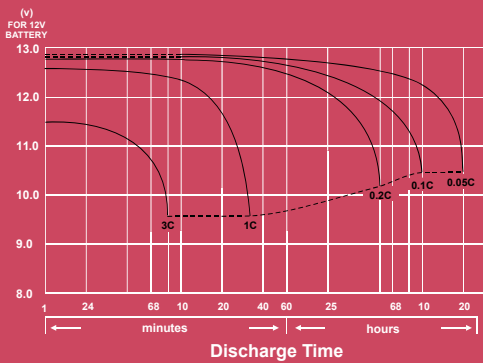
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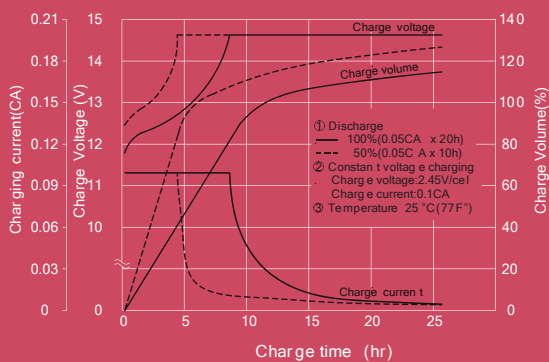
### Design Life



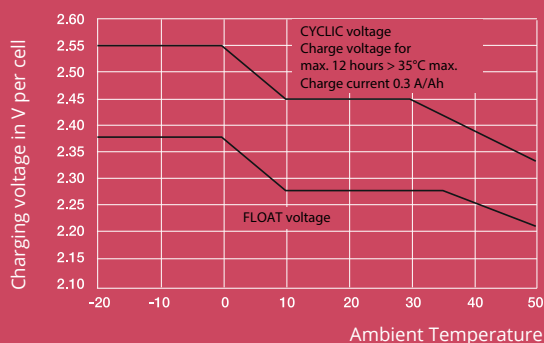
### Discharge time VS. discharge current (25C)



### 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 3.5-6	3.5	194 x 25 x 56	0.62 kg
pbq 4.5-6	4.5	70 x 47 x 107	0.75 kg
pbq 4.5-6 M	4.5	62 x 58 x 98	0.84 kg
pbq 7-6	7	151 x 34 x 100	1.2 kg
pbq 12-6	12	151 x 50 x 100	1.85 kg
pbq 0.8-12	0.8	96 x 25 x 62	0.4 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	0.99 kg
pbq 2.3-12C	2.3	182 x 23 x 61	0.73 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	1.3 kg
pbq 3.4-12	3.4	134 x 67 x 67	1.3 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	2.2 kg
pbq 7-12L*	7	151 x 65 x 102	2.2 kg
pbq 12-12*	12	151 x 98 x 101	3.7 kg
pbq 18-12*	18	181 x 77 x 167	5.5 kg
pbq 26-12*	26	165 x 176 x 127	8.4 kg
pbq 28-12 T2	28	165 x 125 x 175	8.6 kg
pbq 40-12*	40	197 x 165 x 170	13.5 kg
pbq 65-12*	65	350 x 167 x 186	22 kg

**\* VdS models**

### Certificates



### 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 the terminal is downward.

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