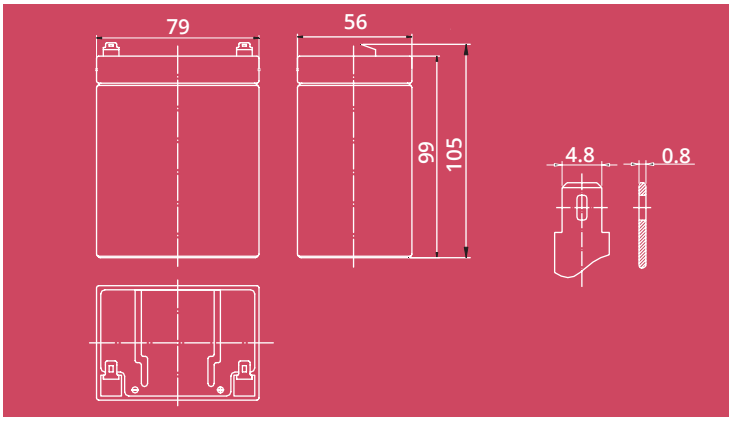


Basic Specifications

Voltage:	12 Volt
Capacity:	20 hour rate: 2.9Ah
	10 hour rate: 2.7Ah
	5 hour rate: 2.5Ah
Design life:	3-5 years
Appr. dimensions:	79x56x99/105mm (LxWxH) (±2mm)
Terminal:	Faston Tab 4.8mm T1
Container & lid:	ABS
Internal Resistance:	42mΩ (Fully charged)
Approximate weight:	1.05kg
Max charge current:	0.87A
Max discharge current:	43.5A (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 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 25oC in a standby application.

Typical Applications

- Security systemens / 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

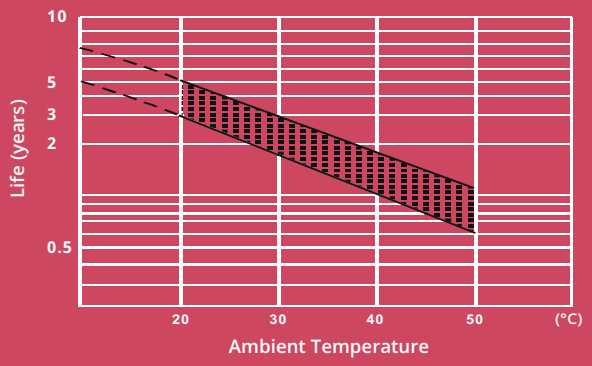
Discharge data in Watts per battery (25°C)

	(V/cell)	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
End Voltage	1.80V	103	65,9	54	31,5	19,9	8,35	5,71	3,17	1,71
	1.75V	109	69,9	57	32,7	20,5	8,61	5,89	3,24	1,74
	1.70V	114	73	59	33,5	21	8,67	5,93	3,26	1,75
	1.65V	119	76,2	61,3	34,5	21,5	8,73	5,97	3,27	1,76
	1.60V	123	78,5	62,8	35,2	21,8	8,79	6	3,28	1,77

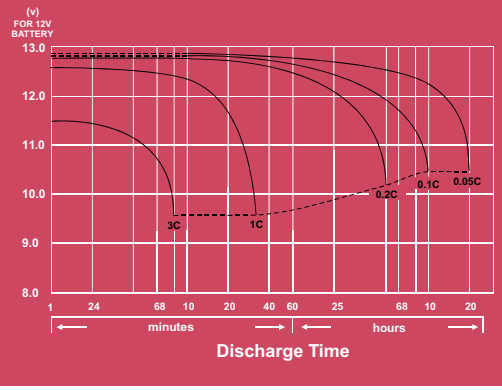
Discharge data in Amperes (25°C)

	(V/cell)	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
End Voltage	1.80V	9,26	5,85	4,74	2,75	1,72	0,7	0,48	0,26	0,14
	1.75V	9,81	6,19	5	2,85	1,77	0,73	0,49	0,27	0,15
	1.70V	10,2	6,47	5,18	2,92	1,81	0,73	0,5	0,27	0,15
	1.65V	10,7	6,75	5,38	3,01	1,86	0,74	0,5	0,27	0,15
	1.60V	11	6,96	5,51	3,07	1,89	0,74	0,5	0,27	0,15

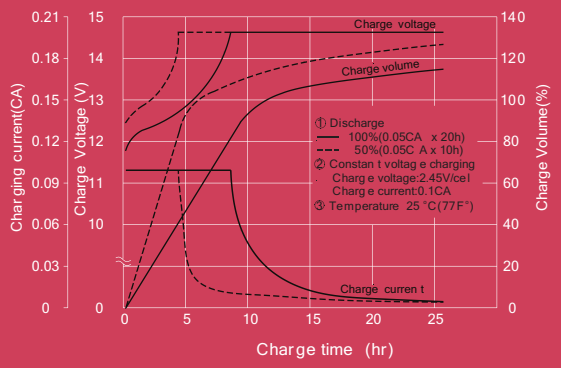
Design Life



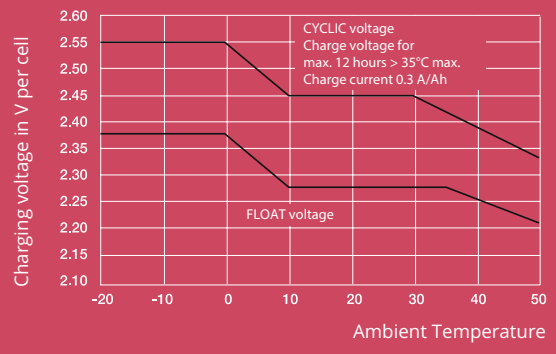
Discharge time VS. discharge current (25C)



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

RoHS 2002/95/EC

UL

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.