

General purpose batteries

12 volt range

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. The functional life is 4-5 years at an operating temperature of 25°C.

Typical applications:

- toys
- household appliances
- sensors
- UPS systems
- integrated emergency power supplies
- telecommunication equipment
- garden tools

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.

Safety and security systems are approved by the VdS and monitored in subsequent use to protect property and life and help to keep a insurance premiums lower.

Apart from the VdS approval, this range is also approved by the Dutch NCP institute, further underlining the high quality of this range.

Typical applications:

- VdS & NCP approved alarm systems
- Fire & burglar alarmsystems

Models available

Model pbq...	Capacity in Ah	Dimensions (LxWxH1/H2)	Weight
0.8-12	0.8	96x25x62mm	360gr
1.2-12	1.2	98x48x51/57mm	550gr
1.3-12	1.3	98x48x51/57mm	560gr
2-12PC	2	144x24x65mm	870gr
2.3-12PC	2.3	182x24x61mm	980gr
2.3-12	2.3	178x35x61/67mm	990gr
2.6-12	2.6	178x34x61/66mm	1kg
2.9-12	2.9	79x56x98.5/102mm	1.1kg
3.2-12	3.2	134x67x61/67mm	1.2kg
3.4-12	3.4	134x67x61/67mm	1.3kg
4-12	4	195x47x70/74mm	1.7kg
5.2-12	5.2	90x70x102/108mm	1.9kg
7-12	7	151x65x95/101mm	2.6kg
12-12	12	151x98x95/101mm	4.2kg
18-12	17	181x77x167mm	5.7kg
26-12	26	166x175x125mm	9.4kg
40-12	40	197x165x170mm	13.7kg
65-12	65	335x167x179/183mm	22kg

Quality Control

All pbq batteries are being produced against ISO 9002 and UL quality control standards. Furthermore, batteries are inspected again using the MIL-Std. 105B method of statistical analyses upon arrival in the central warehouses. At pbq we understand that a defective battery can mean loss of information, productivity, customers and increased service cost, all 'features' you can do without!

Special Models

Apart from the models listed here, pbq can arrange the design and production of special models. For OEM applications several designs have been made to suit specific applications, either in capacity or in dimensions. Contrary to popular believe, you will not need to order hundred thousands of batteries to justify the cost of this. Starting at around 20.000 units your own design can be commercially viable.

VdS Numbers

Model pbq...	Capacity in Ah	VdS Number
pbq 1.2-12	1.2	G104102
pbq 2.3-12	2.3	G104103
pbq 7-12	7	G104049
pbq 12-12	12	G104087
pbq 18-12	17	G104088
pbq 26-12	26	G104089
pbq 40-12	40	G104090

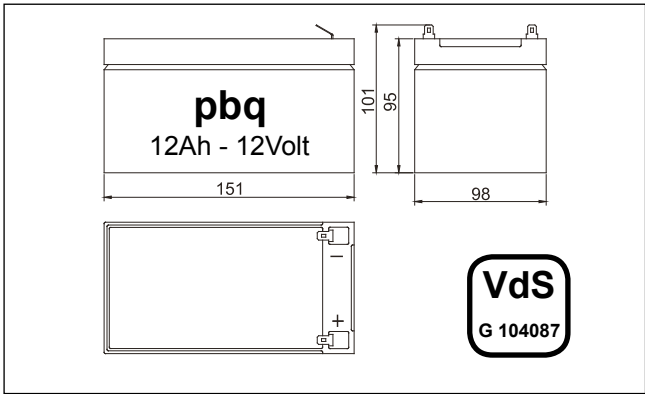
pbq 7-12



pbq 0.8-12



pbq 40-12



Voltage : 12 Volt
 Capacity : 12Ah
 Dimensions : 151x98x95/101mm (LxWxH)
 Terminal : Faston 250
 Container & lid : ABS
 Approximate weight : 4.2kg
 Packing : 5/box, 21.5kg
 240/pallet, 1057kg

- Typical Applications:**
- UPS Systems
 - Fire & burglar alarm systems
 - Household appliances
 - Garden tools
 - Telephone exchanges
 - Sensors
 - Measurement devices

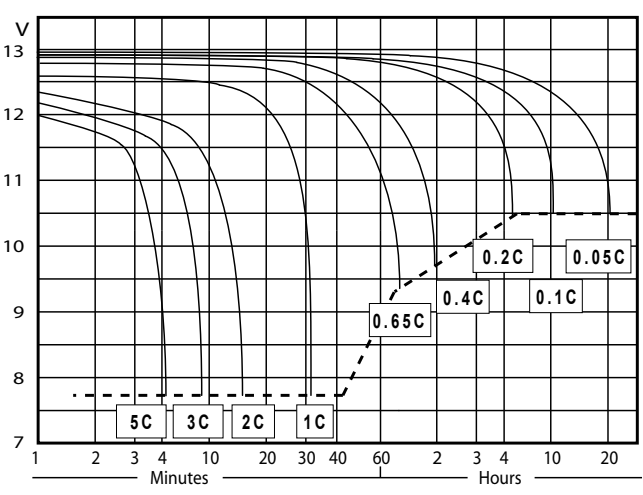
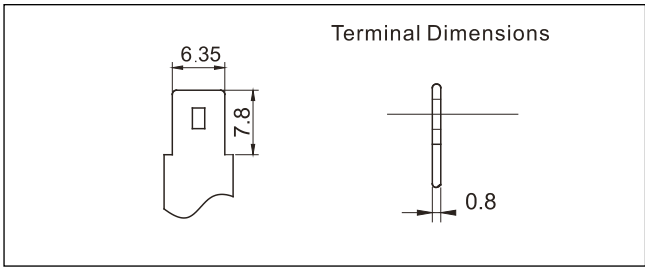
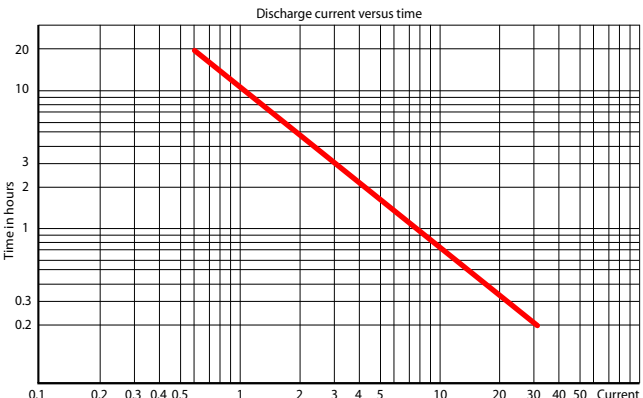
Capacity
 20 hour rate (600mA) : 12Ah
 10 hour rate (1.12A) : 11.2Ah
 5 hour rate (1.92A) : 9.6Ah
 1 hour rate (7.75A) : 7.75Ah

Internal Resistance (fully charged) : 20mOhm

Capacity versus temperature
 40°C : 102%
 25°C : 100%
 0°C : 85%
 -15°C : 65%

Max. discharge current : 180A (5 sec)

Charge (constant voltage)
 Maximum charge current 3.6A
 Float use: 13.6 - 13.9 Volt. -20mV/°C
 Cyclic use: 14.5 - 14.9 Volt. -30mV/°C



Discharge data watt/battery

	Discharge time	5 min	10 min	15 min	30 min	1 hr	3 hr	5 hr	10 hr
End Voltage	10.80V	446.40	316.80	237.60	151.20	82.80	34.27	23.76	13.39
	10.50V	468.00	334.08	252.00	158.40	84.24	35.28	24.48	13.68
	10.20V	489.60	345.60	259.20	162.72	84.96	36.00	24.62	13.75
	9.90V	504.00	352.80	266.40	164.16	85.68	36.36	24.77	13.82
	9.60V	518.40	360.00	273.60	165.60	86.40	36.58	24.84	13.82