

**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.

**Flame Retardant ABS Casing**

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

**VdS Models**

Model pbq...	Capacity in Ah	VdS Number
pbq 1,2-12	1,2	G104102
pbq 2,3-12	2,3	G104103
pbq 3,2-12	3,2	G104104
pbq 7-12	7	G104049
pbq 12-12	12	G104087
pbq 18-12F	18	G108009
pbq 26-12F	26	G108010
pbq 40-12F	40	G108011
pbq 65-12F	65	G108087

**Models available**

Model pbq...	Capacity in Ah	Dimensions (LxWxH1/H2)	Weight
pbq 0,8-12F	0,8	96x25x62mm	340gr
pbq 1,2-12	1,2	97x48x52/58mm	630gr
pbq 1,3-12	1,3	97x48x52/58mm	630gr
pbq 2,3-12	2,3	178x35x61/67mm	990gr
pbq 2,6-12	2,6	178x34x61/67mm	990gr
pbq 2,9-12	2,9	79x55,5x98.5/104mm	1,18kg
pbq 3,2-12	3,2	134x67x61/67mm	1,4kg
pbq 3,4-12	3,4	134x67x61/67mm	1,4kg
pbq 4-12F	4	195x47x70/76mm	1,58kg
pbq 5,2-12U	5,2	90x70x102/106mm	1,7kg
pbq 7-12	7	151x65x93,5/100mm	2,32kg
pbq 12-12	12	151x98x95/101mm	3,67kg
pbq 18-12F	18	181x77x167mm	5,4kg
pbq 26-12F	26	165x176x127mm	8,4kg
pbq 28-12W	28	165x125x175mm	9,9kg
pbq 40-12F	40	197x165x170mm	13,3kg
pbq 65-12F	65	350x167x179/186mm	21,2kg

**Typical applications:**

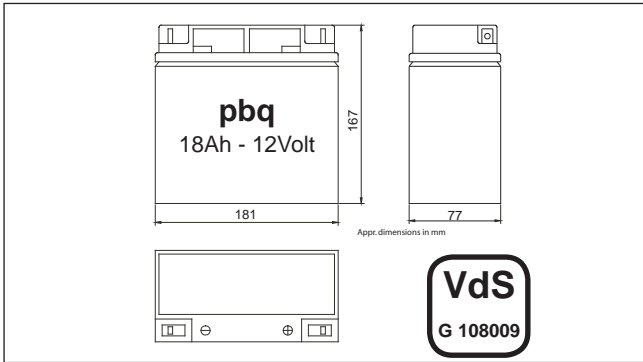
- VdS & NCP approved alarm systems
- Fire & burglar alarmsystems

**Quality Control**

All pbq batteries are being produced against ISO 9001 and UL quality control standards. Furthermore, batteries are inspected again using a 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!



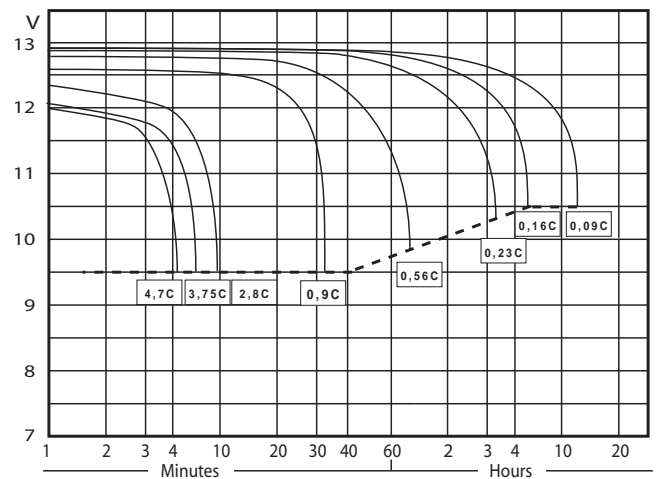
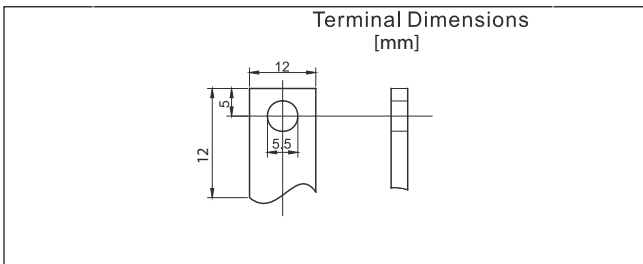
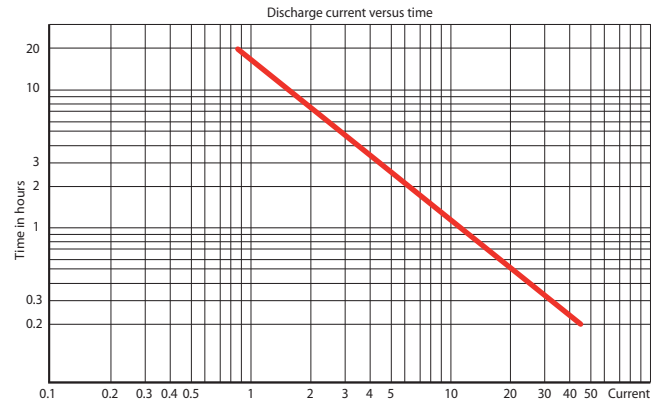
*12 volt General Purpose family*



Voltage	: 12 Volt
Capacity	: 18Ah
Appr. dimensions	: 181x77x167mm (LxWxH)
Terminal	: M5 Nut & Bolt ( <i>supplied</i> )
Container & lid	: Flame Retardant ABS
Approximate weight	: 5.4kg
Certificate(s)	: CE, UL, VdS, NCP
RoHS Compliant	: Yes

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

<b>Capacity</b>	
20 hour rate (900mA)	: 18Ah
10 hour rate (1.63A)	: 16.3Ah
5 hour rate (2.88A)	: 14.4Ah
1 hour rate (10.4A)	: 10.4Ah
15 min. rate (30.2A)	: 7.55Ah
<b>Internal Resistance (fully charged)</b> : 17mOhm	
<b>Capacity versus temperature</b>	
40°C	: 102%
25°C	: 100%
0°C	: 85%
-15°C	: 65%
<b>Max. discharge current</b> : 270A (5 sec)	
<b>Charge (constant voltage)</b>	
Maximum charge current 5.4A	
Float use: 13.6 - 13.8 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	20 hr
End Voltage	10,80	628	399	327	198	114	50,3	33,7	19,6	10,8
	10,20	668	424	345	208	120	51,3	34,4	19,6	10,9
	9,60	703	447	359	217	125	52,1	34,9	19,7	11,0