

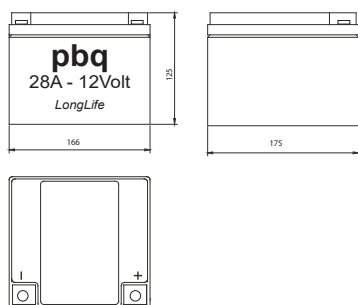

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VRLA Batteries

pbq L 28-12 [20h]
10-year LongLife Battery



Voltage	: 12 Volt
Capacity	: 28Ah
Dimensions	: 166x175x125mm (LxWxH)
Terminal	: M5 insert
Container & lid	: Flame retardant ABS (V0)
Approximate weight	: 9.0kg
Certificate(s)	: CE, UL
RoHS Compliant	: Yes
Eurobat Compliant	: High Performance

Typical Applications:

- UPS Systems
- Emergency lighting systems
- Cordless cleaning equipment
- Telecommunication systems
- Auxiliary power supply for recreational vehicles and boats (non-SLI applications)
- Measurement devices

Capacity

20 hour rate (1.4A)	: 28Ah
10 hour rate (2.,58A)	: 25,8Ah
5 hour rate (4.76mA)	: 23.8Ah
1 hour rate (16,8A)	: 16,8Ah

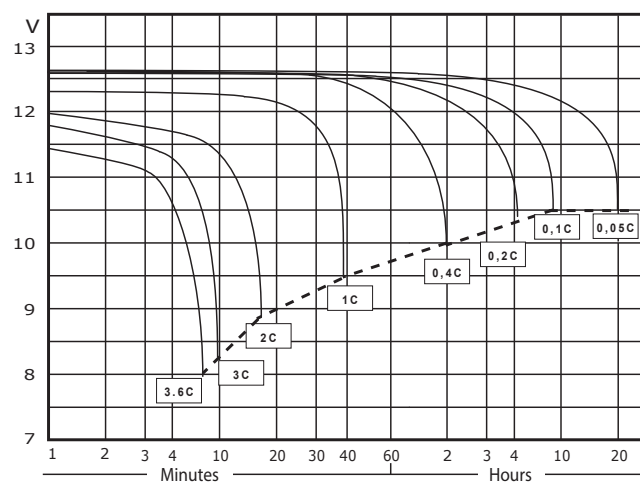
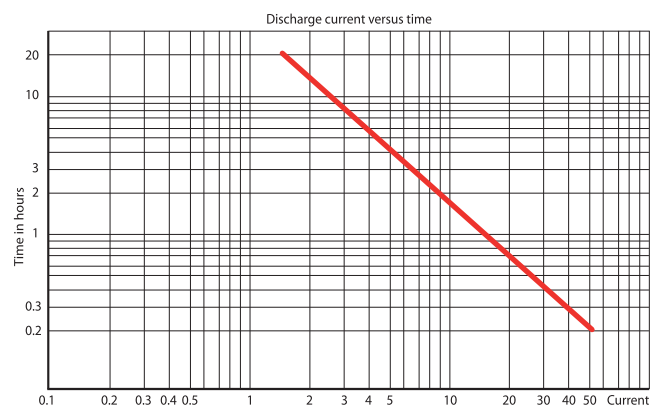
Internal Resistance (fully charged) : 9mOhm

Capacity versus temperature

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

Charge (constant voltage)

Initial Charging current
Float use: 13.5 - 13.8 Volt. -20mV/°C
Cyclic use: 14.4 - 15.0 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	10,8	848	616	424	328	167	76,2	51,9	29,6	16,1
	10,5	907	651	452	334	172	79,8	53,8	29,8	16,3
	10,2	924	672	479	341	177	80,2	55,8	30,5	16,5
	9,9	992	707	504	343	178	81,1	56,2	30,6	16,6
	9,6	1046	710	525	346	181	80,2	55,8	30,6	16,8

10-year LongLife Series

These VRLA batteries use thicker plates than the standard 4-5 year models. The electrolyte is absorbed by the AGM separators and plates and therefore these batteries can be mounted in any position. The one-way valve allow gases to escape, avoiding excessive pressure build-up in the case of accidentally overcharge.

General Features

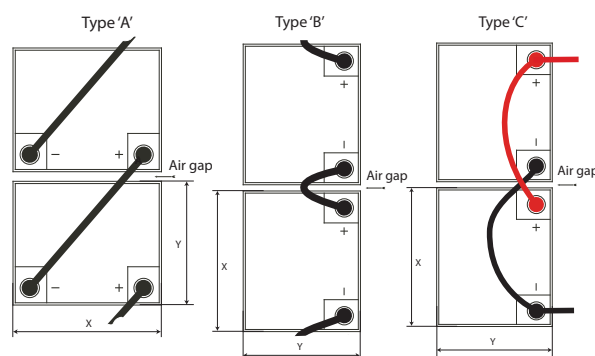
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications. Maintenance-free operation.
- Low self discharge.
- Case and cover are flame retardant ABS.

Features

- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Long Service Life, in Float or Cyclic
- Not for so called SLI applications (Starter, Lighting and Ignition)
- Flame retardant ABS, UL94V-0 / 92-2.
- International Standard, JIS and DIN

Models Available

Model pbq...	Capacity in Ah	Dimensions (LxWxH1/H2)	Weight
7-12L	7,0	151x51x94/100mm	2.35kg
12-12L	12,0	151x98x94/100mm	3.7kg
17-12L	17,0	181x77x167mm	5.8kg
28-12L	28,0	166x175x125mm	9.0kg
33-12L	33,0	196x130x155/170mm	11kg
40-12L	40,0	197x166x171mm	13.8kg
55-12L	55,0	239x132x205/210mm	18kg
65-12L	65,0	355x167x179mm	23,4kg
80-12L	80,0	355x167x179mm	24kg
100-12L	100,0	330x171x215/220mm	32kg
120-12L	120,0	410x176x227mm	38kg
150-12L	150,0	482x170x240mm	47kg
200-12L	200,0	522x238x218/223mm	65kg
230-12L	230,0	520x269x203/208	72,6kg
100-6L	100,0	194x170x205/210mm	16.5kg



Battery	X [mm]	Y [mm]	Airgap [mm]	Type A connection	Type B connection	Type C connection	Connector size
pbq 33-12L	196	130	5	ZKC250/6	ZKC100/6	ZKC250/6	M6 insert
pbq 40-12L	197	166	10	ZKC250/6	ZKC100/6	ZKC250/6	M6 insert
pbq 55-12L	239	132	10	ZKC250/6	ZKC100/6	ZKC250/6	M6 insert
pbq 65-12L	355	167	10	ZKC320/6	ZKC100/6	ZKC240/6	M6 insert
pbq 80-12L	355	167	10	ZKC320/6	ZKC100/6	ZKC240/6	M6 insert
pbq 100-12L	330	171	10	ZKC320/6	ZKC100/6	ZKC240/6	M6 insert
pbq 120-12L	410	176	10	ZKC420/8	ZKC125/8	ZKC420/8	M8 insert
pbq 150-12L	482	170	10	ZKC550/8	ZKC125/8	ZKC550/8	M8 insert
pbq 200-12L	238	522	10	ZKC550/8	ZKC125/8	ZKC420/8	M8 insert
pbq 230-12L	269	520	10	ZKC700/8	ZKC125/8	ZKC420/8	M8 insert

Automotive posts: Set of one positive and one negative screw-in type automotive post M6: ZKTERM001

Automotive posts: Set of one positive and one negative screw-in type automotive post M8: ZKTERM002

Inter-tier connector cables

1 meter M6	ZKC1000/6	For pbq 33, 55, 65, 80 and 100Ah
2 meter M6	ZKC2000/6	For pbq 33, 55, 65, 80 and 100Ah
1 meter M8	ZKC1000/8	For pbq 120, 150, 200 and 230Ah
2 meter M8	ZKC2000/8	For pbq 120, 150, 200 and 230Ah

CONSULTING DISTRIBUTOR



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