


POHL

POHL Electronic GmbH

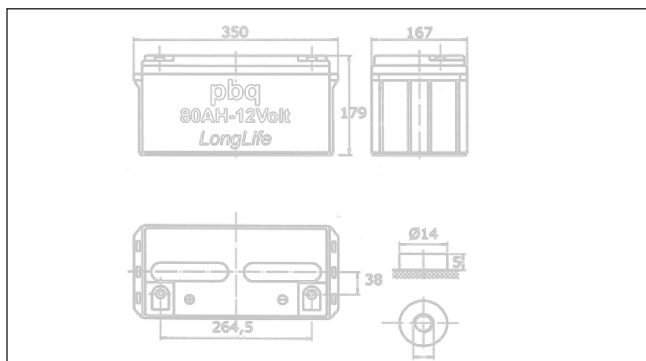
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VRLA Batteries

pbq L 80-12 [20h]
10-year LongLife Battery



Voltage	: 12 Volt
Capacity	: 80Ah
Dimensions	: 350x167x179 mm (LxWxH)
Terminal	: M6 insert (<i>bolt supplied</i>)
Container & lid	: Flame retardant ABS (V0)
Approximate weight	: 24kg
Certificate(s)	: CE, UL, BS 6920 Part 4
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)
- Solar energy systems

Capacity

20 hour rate (4A)	: 80Ah
10 hour rate (7.2A)	: 72Ah
5 hour rate (14,4A)	: 65Ah
1 hour rate (53,7A)	: 53,7Ah

Internal Resistance (*fully charged*) : 5.5mOhm

Capacity versus temperature

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

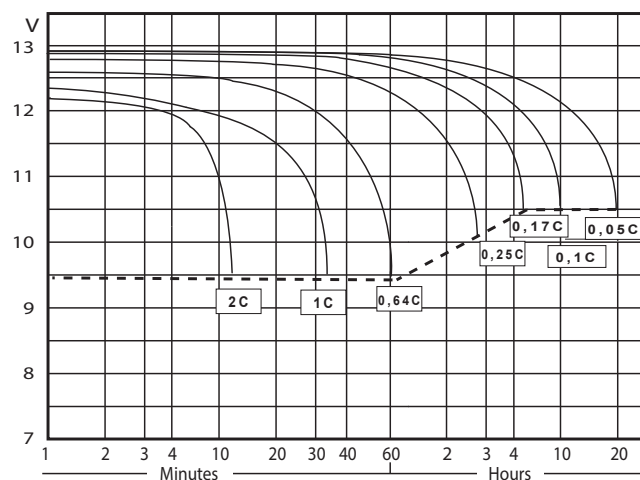
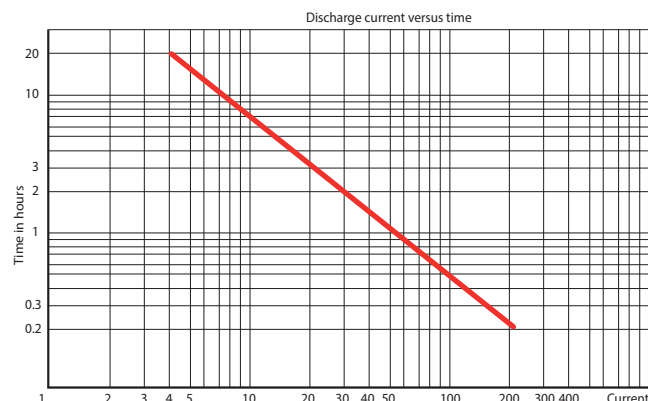
Max. discharge current : 750A (5 sec)

Charge (*constant voltage*)

Maximum charge current 24A

Float use: 13.6 - 13.8 Volt. -20mV/°C

Cyclic use: 14.4 - 14.7 Volt. -30mV/°C



Optional A-post
connectors and cables

Discharge data watt/battery

	DoD [V/battery]	5 min	10 min	15 min	30 min	45 min	1 hr	2 hrs	3 hrs	5 hrs
End Voltage	10,8	2142	1650	1308	876	666	553,8	312	214,8	154,8
	10,5	2208	1722	1392	894	684	564,6	317,4	219	158,4
	10,2	2340	1794	1476	906	702	576	323,4	223,2	162
	9,9	2466	1866	1560	924	720	586,8	329,4	227,4	167,4
	9,6	2598	1800	1644	936	732	600	336	244,8	167,4

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

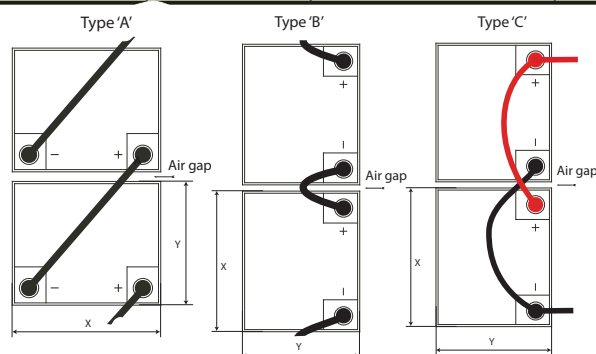
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy 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
225-6L	225,0	260x180x247/265mm	31kg



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

Type number key for cables

ZKCxxx/y
xxx = length between connecting holes in mm
y = bolt diameter
6: for 6mm bolt, 50mm² copper cable diameter
8: for 8mm bolt, 75mm² copper cable diameter

CONSULTING DISTRIBUTOR



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