

**Front Access Series**

This range of batteries has been designed for use in 19" or 23" cabinets commonly found in telecommunication applications and larger UPS systems. Due to their space-saving design 4 batteries can be mounted side-to-side occupying one shelf in a cabinet. Since the connections are on the front of the battery there is no need to leave a space above the batteries for the measurement of individual battery voltage or maintenance of the connections.

**General Features**

- Absorbent Glass Mat (AGM) technology.
- No electrolyte maintenance or water to be added.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized components used.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Low self discharge.
- Case and cover in flame retardant ABS.

The pbq 'FA-series' is designed for a functional life of 10 years under float conditions in accordance to the EUROBAT specifications to live up to the most demanding applications in the fields of:

- Telecommunications
- UPS systems
- Emergency power supplies
- Fire protection and alarm systems
- Etc.

**Features**

- High Reliability and Good Quality
- Deep Discharge Recovery
- High Power Density
- Long Service Life, in Float or Cyclic
- International Standard, JIS and DIN

**Models available**

Model pbq...	Capacity in Ah	Dimensions (LxWxH1/H2)	Weight
50-12FA	50,0	277x106x222mm	17.3kg
100-12FA	100,0	508x110x238mm	32kg
105-12FA	105,0	395x110x286mm	35kg
125-12FA	125,0	436x108x317mm	41kg
140-12FA	140,0	522x110x288mm	49kg
155-12FA*	155,0	546x125x315**mm	59kg
180-12FA	180,0	546x125x317**mm	60kg

\* 12+ year design life

\*\* for 23" cabinets

Respect a 10 to 15mm air gap between the batteries on each shelf.



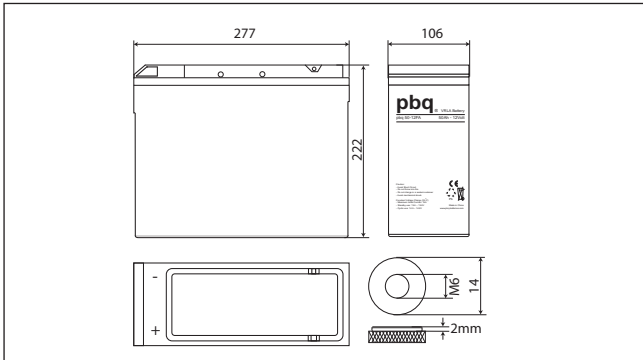
*pbq Front Access family*



*pbq 50-12FA*



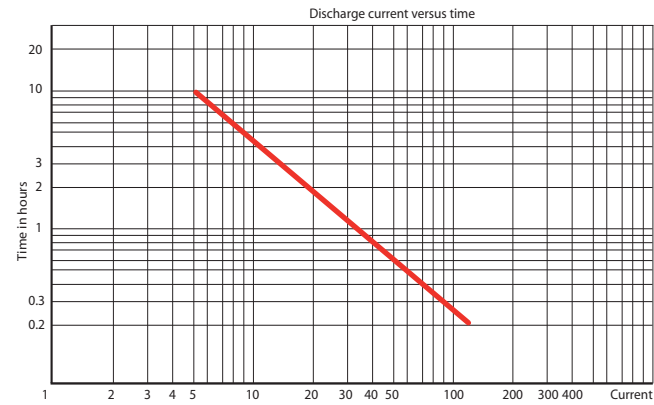
*pbq 180-12FA*



Voltage	: 12 Volt
Capacity	: 50Ah
Dimensions	: 277x106x222 mm (LxWxH)
Terminal	: M6 insert ( <i>bolt supplied</i> )
Container & lid	: Flame Retardant ABS
Approximate weight	: 17.3kg
Certificate(s)	: CE, UL
RoHS Compliant	: Yes

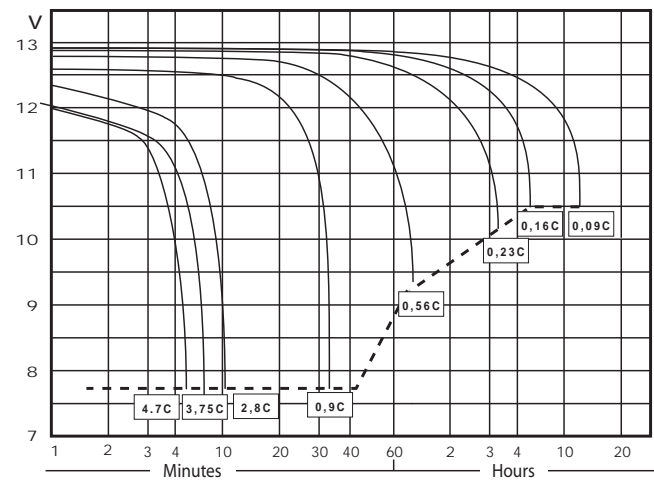
- Typical Applications:**
- Telecommunication devices
  - Fire & burglar alarm systems
  - Audio and video broadcast systems
  - Building automation
  - Emergency lights
  - UPS systems
  - Remote measurement systems

<b>Capacity</b>	
10 hour rate (5A)	: 50Ah
5 hour rate (8.5A)	: 42.5Ah
1 hour rate (33.1A)	: 33.1Ah
15 minute rate (93.5A)	: 23.4Ah
<b>Internal Resistance (<i>fully charged</i>)</b> : 8mOhm	
<b>Capacity versus temperature</b>	
40°C	: 102%
25°C	: 100%
0°C	: 85%
-15°C	: 65%
<b>Max. discharge current</b> : 500A (5 sec)	
<b>Charge (<i>constant voltage</i>)</b>	
Maximum charge current 15A	
Float use: 13.6 - 13.8 Volt. -20mV/°C	
Cyclic use: 14.4 - 14.7 Volt. -30mV/°C	



The FA series is designed for use in 19" cabinets so that 4 batteries can be placed next to each other. Due to the front terminal, the space between the batteries and the next shelf can be very small.

The manifold on each battery allows for the attachment of tubes that can be brought outside the cabinet to allow gasses that might develop in an over-charge condition to escape.



Discharge data watt/battery

	DoD [V/battery]	10 min	15 min	30 min	45 min	1 hr	3 hrs	5 hrs
End Voltage	10,80	882	762	560,4	444,6	370,2	165	107,4
	10,50	948	810	587,4	461,4	381	166,2	108,6
	10,20	1008	804	612	478,8	391,8	168	109,2
	9,90	1074	906	642	496,2	402,6	169,2	110,4
	9,60	1140	954	666	513,6	414	171	111