

**2 Volt SC Series**

The SC (Single Cell) or monoblock series is made of individual cells each providing 2 Volt. By combining multiple cells, batteries of nearly every voltage and capacity can be made. Depending on the capacity of the cell, one, two or four connection points for the positive and negative connections are available.

Due to the flexible design, the final shape of the battery can be adapted to the space available. Since the cells can be placed in any direction, creating a system with all connections on the front enables easy checking of individual cell voltages and the torque 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.
- Flame retardant ABS, UL94V-0 / 92-2.
- Cell interconnectors and covers included.

The **pbq** SC-series is designed for a functional life of 13 years under float conditions at 25°C in accordance with the **EUROBAT** specifications or 15 years at 20°C.

**Solar Systems**

With more and more emphasis on the high cost of fossil fuels, solar systems are gaining more importance day by day. The pbq SC series has been proven to be very suitable for both municipal and private applications due to its excellent charge acceptance, long functional life and compact size.

The SC-series has been built and tested to live up to the most demanding applications in the fields of:

- Telecommunications.
- UPS systems.
- Emergency power supplies.
- Solar application.
- Pumping systems in firefighting applications 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.



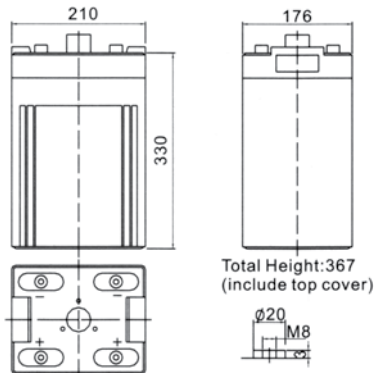
Interconnectors are supplied with all cells.



pbq SC-500, 2Volt - 500Ah with cover installed.



Please ask your pbq distributor for the complete range of racks for the SC-Series.



Voltage : 2 Volt  
 Capacity : 400Ah  
 Dimensions (LxWxH): 210x176x330/367mm  
 Terminal : Copper M8 Insert  
 Container & lid : Flame retardant ABS  
 UL94V-0 / 92-2  
 Standby design life : 15 years at 20°C  
 Approximate weight : 27.5kg  
 Certificate(s) : CE

Capacity

100 hour rate (4.72A)	: 472Ah
10 hour rate (40A)	: 400Ah
5 hour rate (72.5A)	: 362.5Ah
1 hour rate (237A)	: 237Ah
15 min. rate (602A)	: 151Ah

Operating temp. range : -15°C ~ +50°C

Self discharge:(remaining capacity @ 25°C)

3 months	: 91%
6 months	: 82%
12 months	: 65%

Internal Resistance (fully charged) : 0.5mOhm

Capacity versus temperature

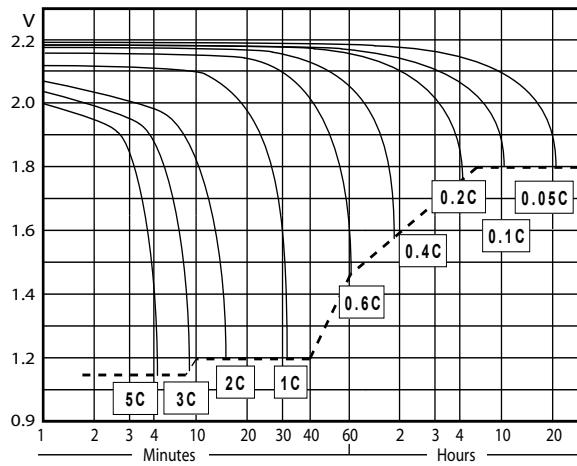
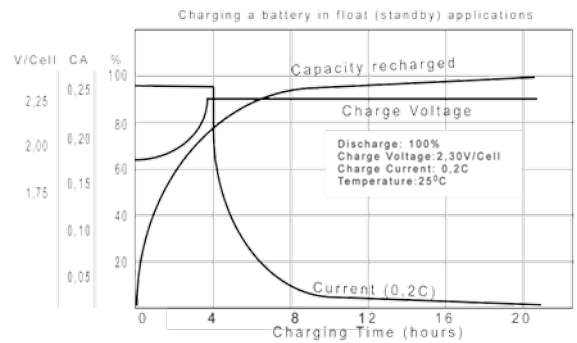
40°C	: 102%
25°C	: 100%
0°C	: 85%
-15°C	: 65%

Max. discharge current : 2800A (5Sec)

Charge (constant voltage)  
 Maximum charge current 80A  
 Float use: 2.23 - 2.30 Volt. -20mV/°C  
 Cyclic use: 2.40 - 2.50 Volt. -30mV/°C

**Typical Applications:**

- Backup power for:
  - Hospitals
  - Telecommunication systems
  - Computer systems
- Off-shore applications
- Trains, metro and related signaling equipment
- Fire control systems
- Solar energy systems



Constant Power Discharge Data (Ampère @ 25°C)

	Discharge Time	10min	15min	30min	45min	1h	3h	5h	10h	100h
End Voltage	1.80V	573	470	347	269	208	98	69.4	40.0	4.72
	1.75V	614	500	368	284	219	102	72.0	40.9	4.82
	1.70V	654	530	388	298	229	106	74.0	41.7	4.96
	1.65V	694	559	408	312	238	110	75.9	42.4	5.07
	1.60V	732	587	427	325	247	114	77.7	43.0	5.14