

## Basic Specifications

Voltage:	2 Volt
Capacity:	20 hour rate: 424Ah 10 hour rate: 400Ah 5 hour rate: 360Ah
Design life:	20 years
Aprr. dimensions:	211x176x329/367mm (LxWxH) (±2mm)
Terminal:	insert M8
Container & lid:	Flame retardant ABS
Internal Resistance:	0.47mΩ (Fully charged)
Approximate weight:	28kg
Max charge current:	80A
Max discharge current:	2000A (5 sec.)
Operating temp. range:	-20°C ~ +60°C
Self discharge:	lower than 3% per month

## Typical Applications

- Trains, metro and related signaling equipment
- Solar and Wind energy systems
- Telecommunication systems
- Computer systems
- Off-shore applications
- Fire control systems
- Hospitals

## Discharge data in Watts per battery (25°C)

	(V/cell)	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr
End Voltage	1.80V	983	710	587	401	185	125
	1.75V	1057	760	626	425	197	132
	1.70V	1131	810	665	449	203	135
	1.65V	1206	860	703	471	209	138
	1.60V	1281	909	740	493	214	140

## Discharge data in Amperes (25°C)

	(V/cell)	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	
End Voltage	1.80V	573	470	347	208	98	69,4	40	
	1.75V	614	500	368	219	102	72	40,9	
	1.70V	654	530	388	229	106	74	41,7	
	1.65V	694	559	408	238	110	75,9	42,4	
	1.60V	732	587	427	247	114	77,7	43	

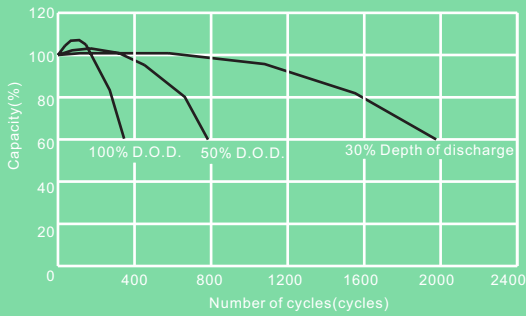
## Single Cell series

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. The cells can be placed in any direction, creating a system with all connections on the front so it enables easy checking of individual cell voltages and the torque of the connections

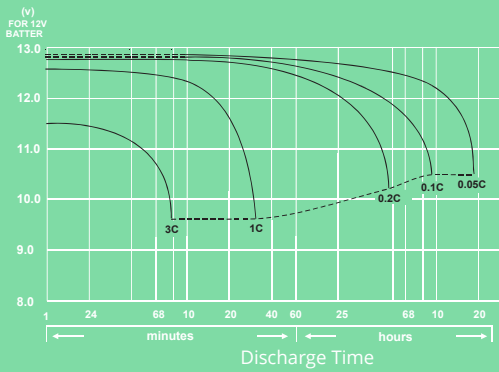
### pbq Single Cell 2V battery features

- The pbq SC-series is designed for a functional life of 15 years under float conditions at 25°C, in accordance with the EUROBAT specifications or 20 years at 20°C.
- 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
- Respect a 20 mm air gap between the cells on each shelf of a cabinet or rack

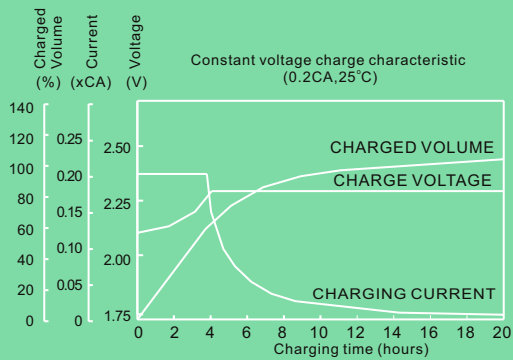
### Cycle Service Life



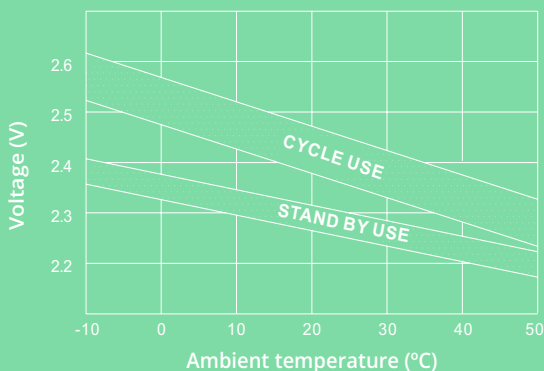
### Discharge Time VS. Discharge Current (25°C)



### Battery Charging Characteristics



### Charging voltage and temperature



### Models available

Model pbq	Capacity in Ah	Dimensions (±2mm) (LxWxH1/H2)	Weight
pbq SC 200-2	200	173x111x329/364	15
pbq SC 300-2	300	171x151x330/364	20
pbq SC 400-2	400	211x176x329/367	28
pbq SC 500-2	500	242x173x330/365	33
pbq SC 600-2	600	302x175x331/367	40
pbq SC 800-2	800	410x175x330/367	53.5
pbq SC 1000-2	1000	475x175x328/367	66.5
pbq SC 1500-2	1500	400x350x345/382	100
pbq SC 2000-2	2000	490x350x345/382	132
pbq SC 3000-2	3000	710x350x345/382	210

### Certificates



### Features

- Absorbent Glassmat Technology
- Low self discharge
- Classified as non-spillable and Non Dangerous goods by IATA, FAA, ADR, IMDG
- Can be discharged or stored in any position without leakage
- Cannot be charged while the terminal is downward.