

Basic Specifications

Voltage:	2 Volt
Capacity:	20 hour rate: 212Ah 10 hour rate: 200Ah 5 hour rate: 182Ah
Design life:	20 years
Aprr. dimensions:	173x111x329/364mm (LxWxH) (±2mm)
Terminal:	insert M8
Container & lid:	Flame retardant ABS
Internal Resistance:	0.67mΩ (Fully charged)
Approximate weight:	15kg
Max charge current:	40A
Max discharge current:	1000A (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	495	420	315	201	94,7	71,7
	1.75V	517	446	331	213	98	73,5
	1.70V	538	473	348	224	101	75,1
	1.65V	559	499	364	235	104	76,6
	1.60V	580	524	380	245	106	78

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	307	325	160	104	48,6	35	20
	1.75V	329	250	169	110	50,8	36,3	20,5
	1.70V	350	265	178	115	52,9	37,4	20,9
	1.65V	372	280	187	120	54,8	38,4	21,2
	1.60V	392	294	196	124	56,6	39,3	21,4

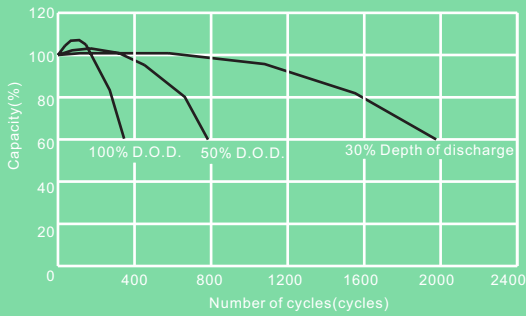
Single Cell series

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

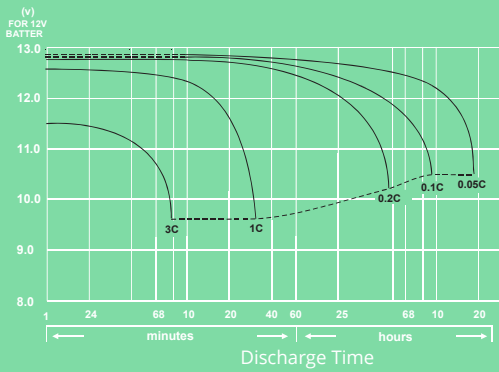
pbq Single Cell 2V battery features

- 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

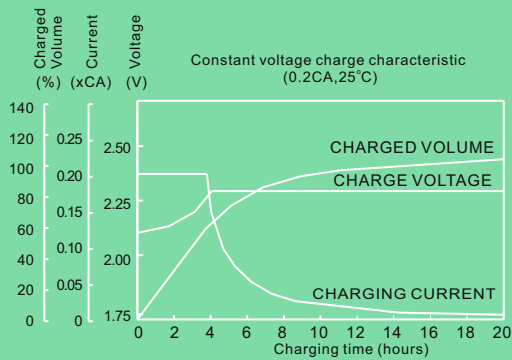
Cycle Service Life



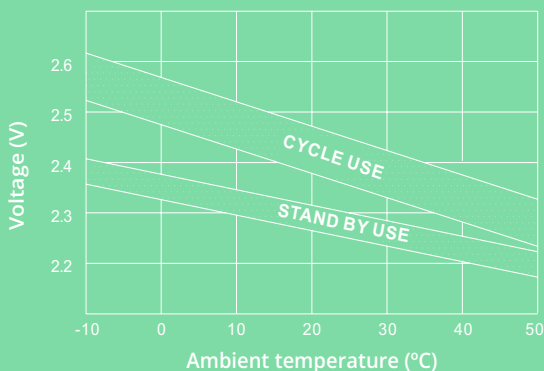
Discharge Time VS. Discharge Current (25°C)



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.