

Basic Specifications

Voltage:	2 Volt
Capacity:	20 hour rate: 318Ah 10 hour rate: 300Ah 5 hour rate: 271Ah
Design life:	20 years
Aprr. dimensions:	171x151x330/364mm (LxWxH) (±2mm)
Terminal:	insert M8
Container & lid:	Flame retardant ABS
Internal Resistance:	0.55mΩ (Fully charged)
Approximate weight:	20kg
Max charge current:	60A
Max discharge current:	1500A (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	680	640	500	328	157	105
	1.75V	732	679	527	342	162	108
	1.70V	783	718	554	357	166	111
	1.65V	835	756	581	371	171	113
	1.60V	887	795	608	385	175	115

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	385	355	265	165	78,5	52,3	30
	1.75V	413	378	280	173	81,3	54,2	30,7
	1.70V	440	400	296	180	84	55,9	31,3
	1.65V	467	422	311	188	86,8	57,4	31,8
	1.60V	493	443	325	195	89,5	58,7	32,1

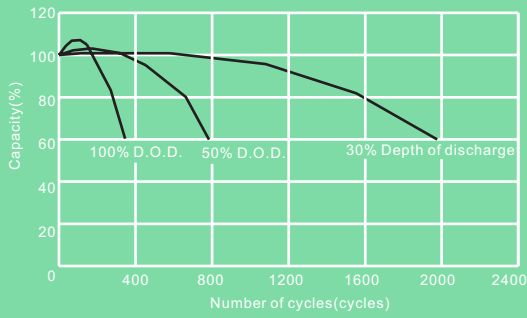
Single Cell series

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

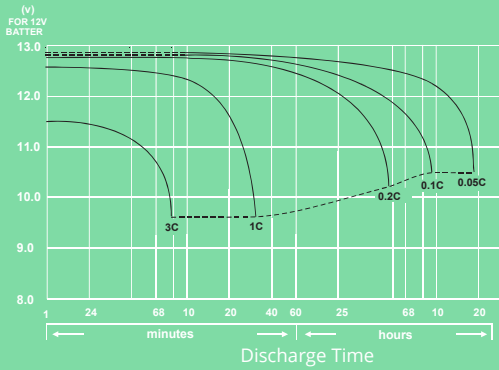
pbq Single Cell 2V battery features

- 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

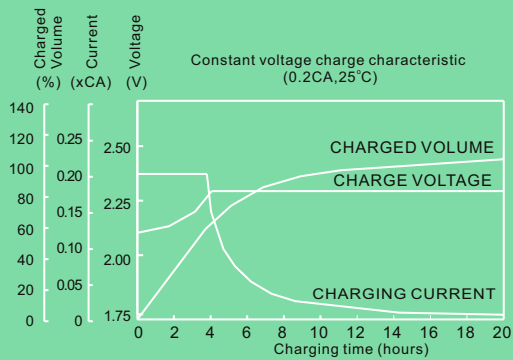
Cycle Service Life



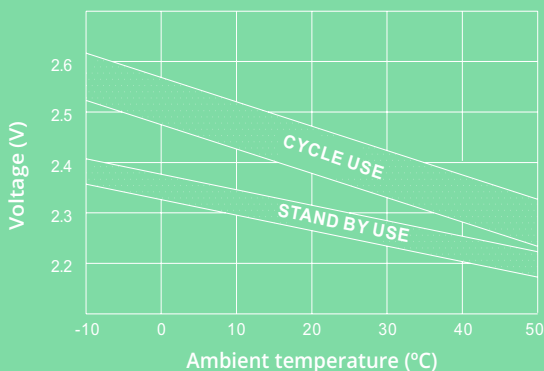
Discharge Time VS. Discharge Current (25°C)



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.