

Basic Specifications

Voltage:	2 Volt
Capacity:	20 hour rate: 636Ah 10 hour rate: 600Ah 5 hour rate: 540Ah
Design life:	20 years
Appr. dimensions:	302x175x331/367mm (LxWxH) (±2mm)
Terminal:	insert M8
Container & lid:	Flame retardant ABS
Internal Resistance:	0.3mΩ (Fully charged)
Approximate weight:	40kg
Max charge current:	120A
Max discharge current:	3000A (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	1467	1112	829	583	309	211
	1.75V	1577	1191	951	617	330	214
	1.70V	1688	1269	1009	649	340	218
	1.65V	1800	1347	1067	680	349	222
	1.60V	1911	1424	1123	710	358	225

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	909	710	503	307	160	105	60
	1.75V	974	755	533	322	167	108	61
	1.70V	1038	800	562	337	174	111	63
	1.65V	1101	844	590	351	181	113	64
	1.60V	1161	887	618	364	186	115	65

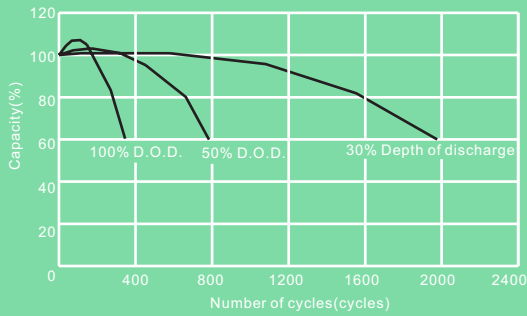
Single Cell series

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

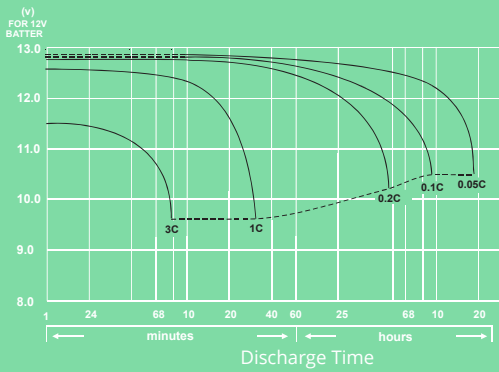
pbq Single Cell 2V battery features

- 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

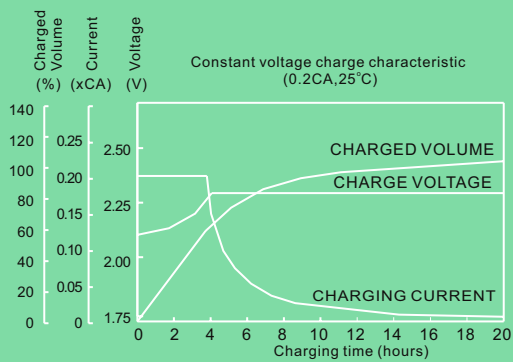
Cycle Service Life



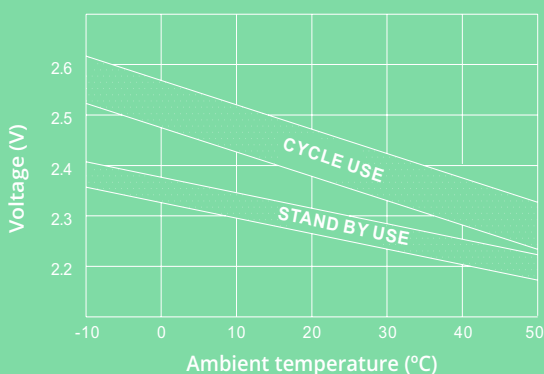
Discharge Time VS. Discharge Current (25°C)



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.