EXC Series

Extreme Cyclic Battery

Main Applications

- Renewable energy (wind & solar) storage system
- Peak shifting of electrical power system
- Frequency regulation and load following service
- Smart-grid & micro-grid sites
- All extreme environment (off-grid & bad-grid sites)

Benefits

- Designing life is long which can help user reduce a lot of operating cost
- Ultra-high cycling performance in both PSoC and deep cycling applications
- Super fast charging performance, reducing charging by 50%
- Less storage cost per kW•h

Technical Features

- Adopt lead- carbon capacitance technology, reducing sulphation of the cathode, ideal for PSoC cycle application and delivering 7~8times cyclic life compared with normal VRLA
- Exceptional fast charging acceptability

Distinctive design for premium quality, high reliability and stability

EXC series, under the name of extreme cyclic battery, is the latest generation of lead-carbon battery in Shoto battery family. This product is specially designed for renewable energy sources such as solar and wind power storage system, based on international advanced lead-carbon capacitance technology. Its performance parameters have reached international leading level and it enjoys good reputation in the world.

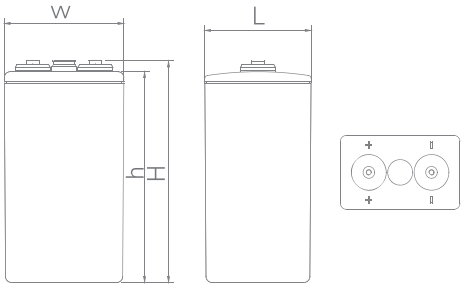
With distinctive design and advanced manufacturing technology, EXC series deliver ultra-high cycling performance and premium quality. Multiple innovative technology makes EXC battery the perfect solution for the challenging operating conditions of energy storage and other extreme off-grid applications.

Passion for Storage and Green Energy

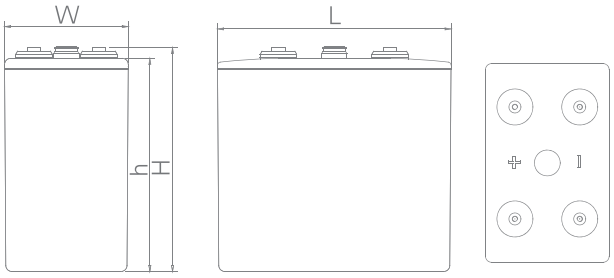
EXC Series

Extreme Cyclic Battery

Drawings



EXC-300~500



EXC-600~1000

Specification

	EXC-300	EXC-400	EXC-500	EXC-600	EXC-800	EXC-1000
Nominal Voltage(V)	2	2	2	2	2	2
Length(mm)	154	183	212	299	357	415
Width(mm)	207	207	207	211	211	211
Height of Monobloc(mm)	358	358	358	358	358	358
Total Height(mm)	372	372	372	372	372	372
10hr Capacity(Ah,25℃)	300	400	500	600	800	1000
Terminal	M8	M8	M8	M8	M8	M8
Terminal Torque(Nm)	15-17	15-17	15-17	15-17	15-17	15-17
Internal Resistance(mΩ)	0.28	0.26	0.25	0.24	0.23	0.22
Short Circuit Current(A)	6400	6800	8030	8300	8800	9600
Weight(kg)	28.3	34.6	40.8	56	69	81.3

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