

Deep Cycle SLA Battery

**DC SERIES**

DC (Deep cycle) Series batteries are designed for deep discharge application, with special chemical formula for plates active paste material, slightly stronger electrolyte and low temperature design, which can withstand repeated deep cyclic application, such as Solar Energy System, Golf Trolley, Electric

**Application**

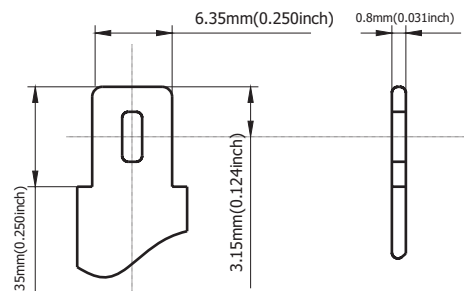
- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

**General Features**

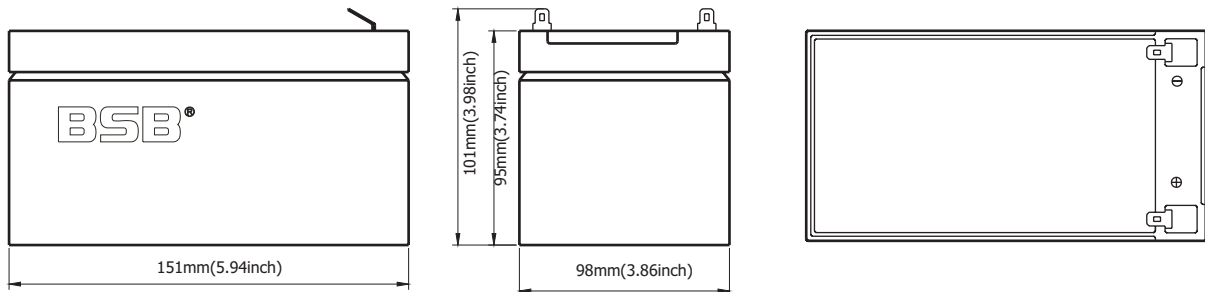
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

**Construction**

- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve ....EPDR
- Terminal .....Copper
- Separator .....Fibre glass
- Electrolyte .....Sulfuric acid

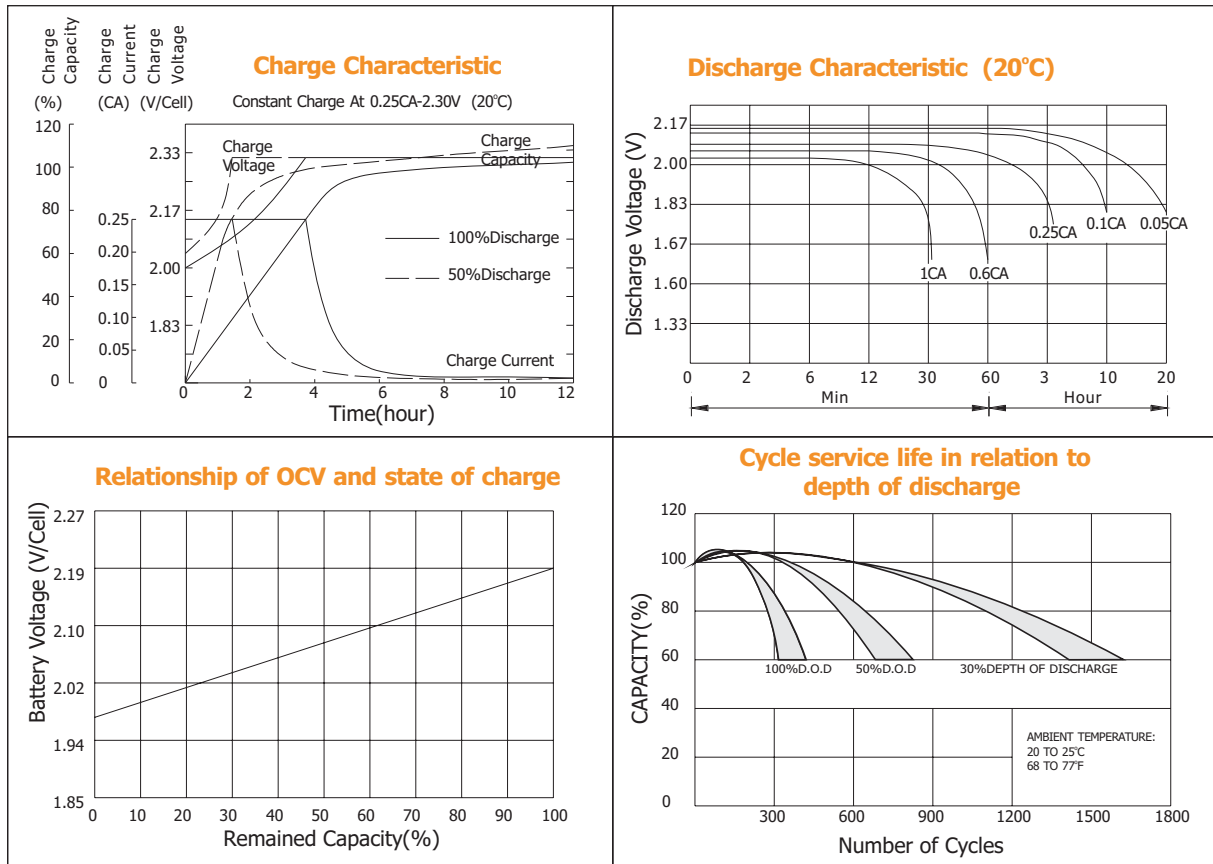


**Terminal Dimensions**



Battery Model	DC 12-12			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(20°C)	20HR(0.60A,1.80V)	10HR(1.08A,1.80V)	5HR(2.04A,1.75V)	1HR(7.85A,1.60V)
	12.0AH	10.8AH	10.2AH	7.85AH
Dimensions	Length	Width	Height	Total Height
	151mm(5.94inch)	98mm(3.86inch)	95mm(3.74inch)	101mm(3.98inch)
Approx. Weight	3.7Kg (8.16 lbs)			
Internal Resistance	Full charged at 20°C: 0.016 Ohm			
Self Discharge	3% of capacity declined per month at (20°C)			
Capacity Affected by Temp.(20HR)	40°C	20°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(20°C)	Cycle use		Float use	
	14.4-14.8V(-30mV/ °C), max. Current: 3A		13.6-13.8V(-20mV/ °C)	

**Deep Cycle SLA Battery**



**Constant current discharge ratings-amperes at 20°C**

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	46.9	29.2	22.0	13.4	7.85	3.74	2.17	1.13	0.67
1.67V	44.0	27.7	21.2	12.8	7.74	3.60	2.13	1.12	0.64
1.70V	40.3	26.7	20.7	11.7	7.51	3.36	2.08	1.11	0.63
1.75V	39.5	25.8	20.0	11.1	7.15	3.25	2.04	1.10	0.62
1.80V	35.4	24.7	18.2	10.3	6.70	3.12	1.92	1.08	0.60
1.85V	31.2	23.5	16.3	9.45	6.24	3.01	1.79	1.07	0.58

**Constant power discharge ratings-watts at 20°C**

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	82.2	52.7	40.2	24.2	14.2	6.64	3.67	2.25	1.33
1.67V	79.4	51.3	39.7	23.7	14.1	6.43	3.66	2.24	1.28
1.70V	74.7	50.8	39.3	22.2	13.8	6.14	3.61	2.22	1.27
1.75V	75.2	50.7	39.0	21.5	13.6	6.00	3.58	2.20	1.24
1.80V	68.8	49.9	36.2	20.5	12.8	5.82	3.47	2.17	1.20
1.85V	62.4	47.4	32.8	19.2	12.0	5.65	3.36	2.14	1.16

