

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**

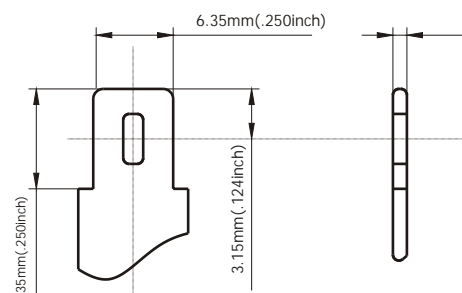
- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

**General Features**

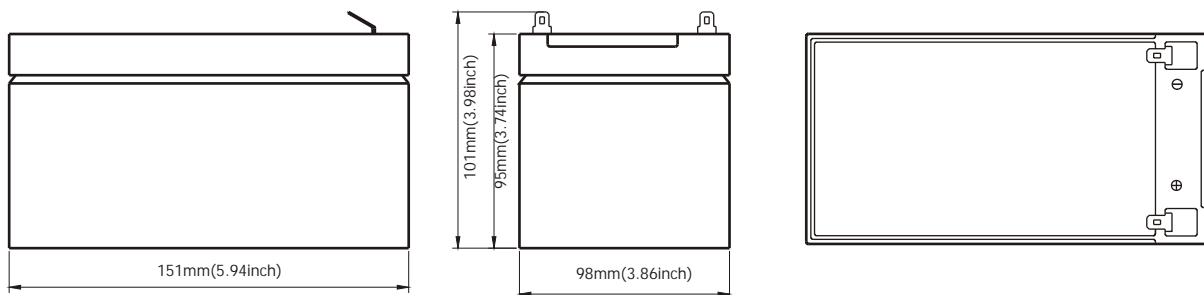
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

**Construction**

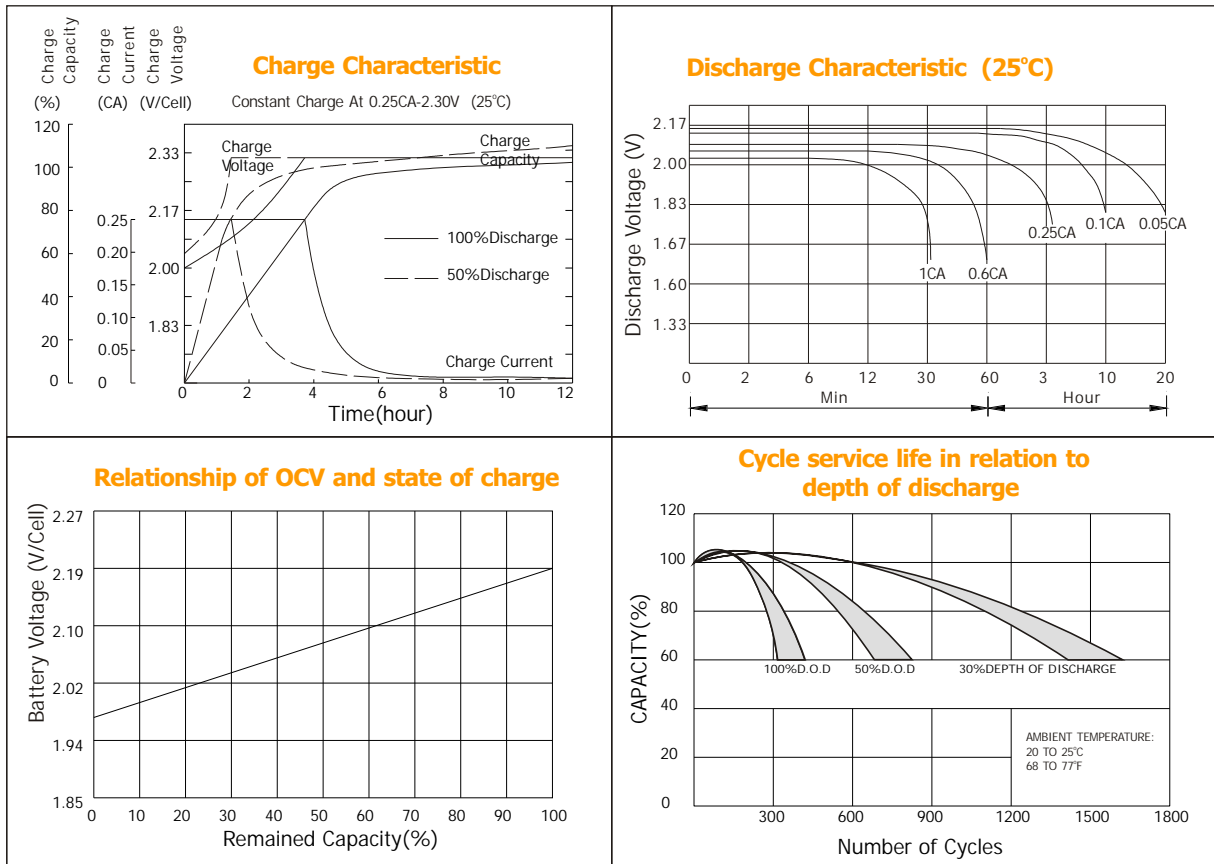
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve ....EPDR
- Terminal .....Copper
- Separator .....Fibre glass
- Electrolyte .....Sulfuric acid



**Terminal Dimensions**



Battery Model	DC 12-12			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(25°C)	20HR(0.65A,1.75V)	10HR(1.2A,1.75V)	5HR(2.05A,1.75V)	1HR(8A,1.75V)
	13AH	12AH	10.25AH	8AH
Dimensions	Length	Width	Height	Total Height
	151mm(5.94inch)	98mm(3.86inch)	95mm(3.74inch)	101mm(3.98inch)
Approx. Weight	4Kg (8.82 lbs)			
Internal Resistance	Full charged at 25°C: 0.016 Ohm			
Self Discharge	3% of capacity declined per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-15V(-30mV/ °C), max. Current: 3.6A		13.6-13.8V(-20mV/ °C)	



**Constant current discharge ratings-amperes at 25°C**

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	65.0	40.4	30.5	18.6	9.38	4.12	2.52	1.37	0.74
1.67V	61.0	38.4	29.3	17.8	9.26	3.96	2.46	1.36	0.71
1.70V	55.9	37.0	28.7	16.2	8.98	3.70	2.41	1.35	0.70
1.75V	54.8	35.8	27.7	15.4	8.55	3.57	2.36	1.35	0.69
1.80V	49.0	34.2	25.2	14.2	8.01	3.43	2.22	1.32	0.67
1.85V	43.3	32.6	22.6	13.1	7.46	3.31	2.08	1.30	0.65

**Constant power discharge ratings-watts at 25°C**

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	114	73.0	55.7	33.5	16.9	7.30	4.25	2.82	1.48
1.67V	110	71.2	55.0	32.8	16.8	7.08	4.24	2.80	1.43
1.70V	104	70.5	54.5	30.7	16.5	6.76	4.18	2.78	1.41
1.75V	104	70.3	54.1	29.8	16.2	6.60	4.14	2.74	1.37
1.80V	95.4	69.2	50.1	28.4	15.3	6.41	4.02	2.71	1.34
1.85V	86.5	65.7	45.5	26.6	14.4	6.21	3.89	2.62	1.32

