

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**

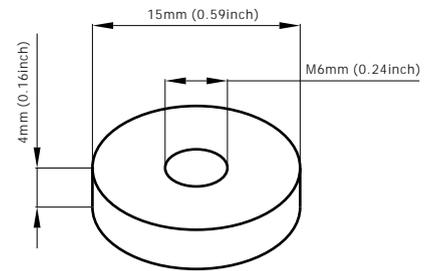
- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

**General Features**

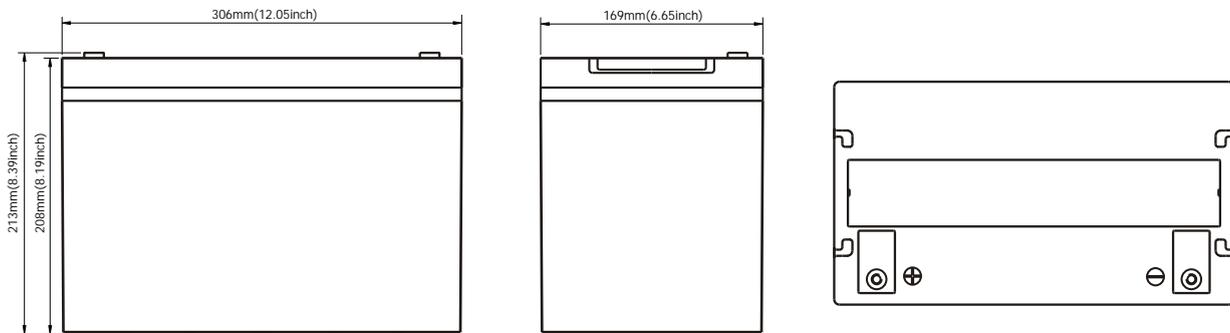
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

**Construction**

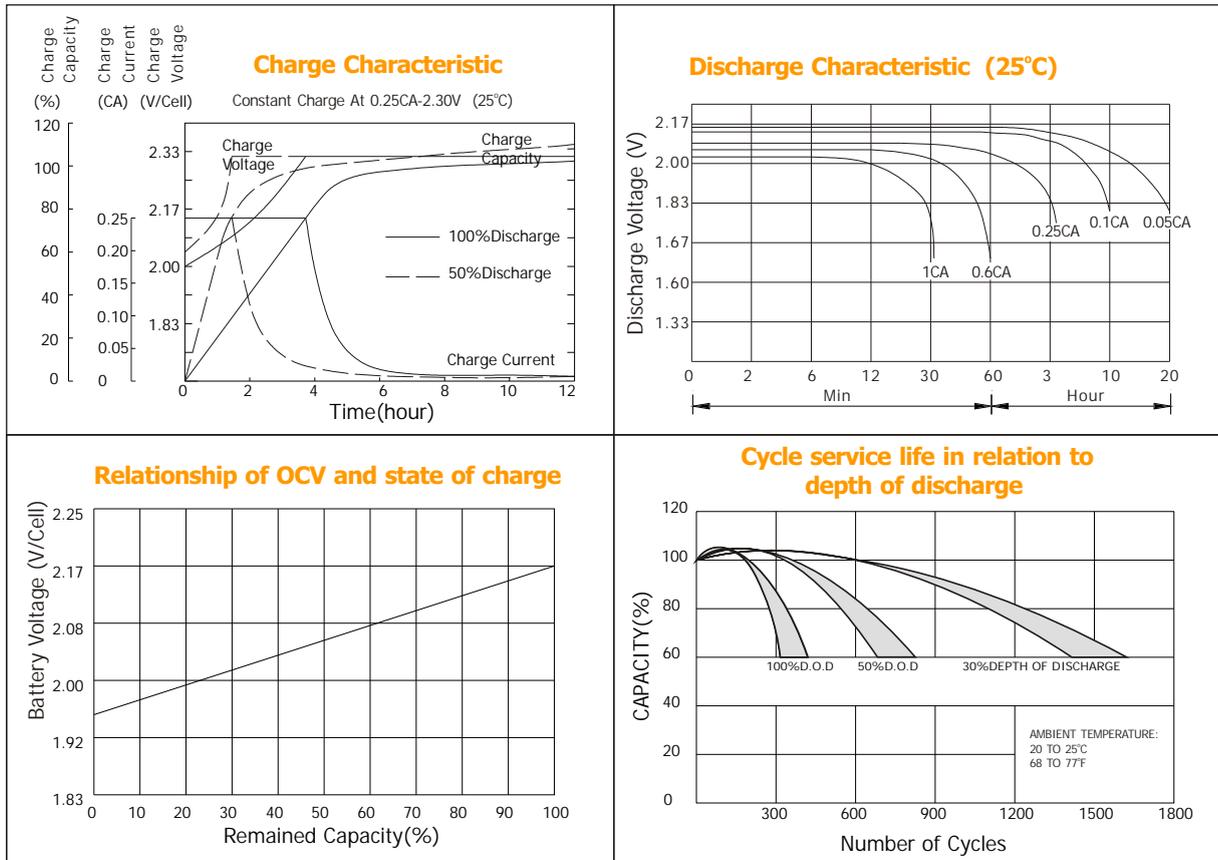
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve ....EPDR
- Terminal .....Copper
- Separator .....Fibre glass
- Electrolyte .....Sulfuric acid



**Terminal Dimensions**



Battery Model	DC 12-90			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(25°C)	20HR(4.54A,1.75V)	10HR(9A,1.75V)	5HR(15.3A,1.75V)	1HR(56.7A,1.75V)
	90.8AH	90AH	76.5AH	56.7AH
Dimensions	Length	Width	Height	Total Height
	306mm(12.05inch)	168mm(6.61inch)	208mm(8.19inch)	213mm(8.39inch)
Approx. Weight	28.9Kg (63.72 lbs)			
Internal Resistance	Full charged at 25°C: 0.0052 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: 22.5A		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	366	228	172	105	65.4	28.7	17.5	9.55	5.16
1.67V	344	216	165	100	64.5	27.6	17.2	9.46	4.98
1.70V	315	208	162	91.2	62.6	25.8	16.8	9.42	4.90
1.75V	309	202	156	86.6	59.6	24.9	16.4	9.39	4.78
1.80V	276	193	142	80.2	55.8	23.9	15.5	9.20	4.65
1.85V	244	184	128	73.9	52.0	23.1	14.5	9.07	4.54

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

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	643	412	314	189	118	50.9	29.6	19.6	10.3
1.67V	620	401	310	185	117	49.3	29.5	19.5	9.94
1.70V	584	397	307	173	115	47.1	29.1	19.4	9.81
1.75V	588	396	305	168	113	46.0	28.9	19.1	9.57
1.80V	538	390	283	160	107	44.7	28.0	18.9	9.49
1.85V	488	370	256	150	100	43.3	27.1	18.6	9.32

