

**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**

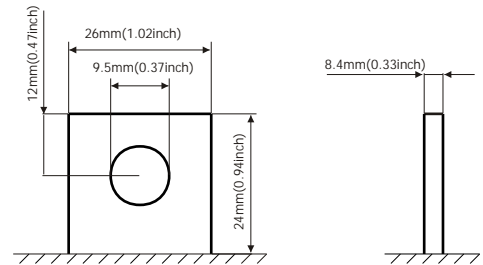
- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

**General Features**

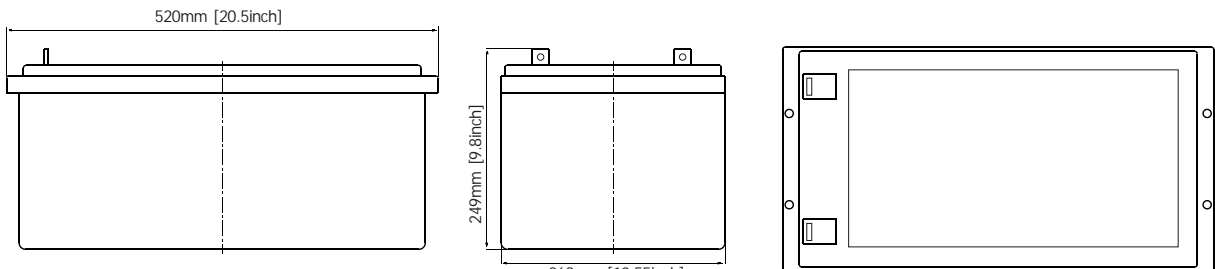
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

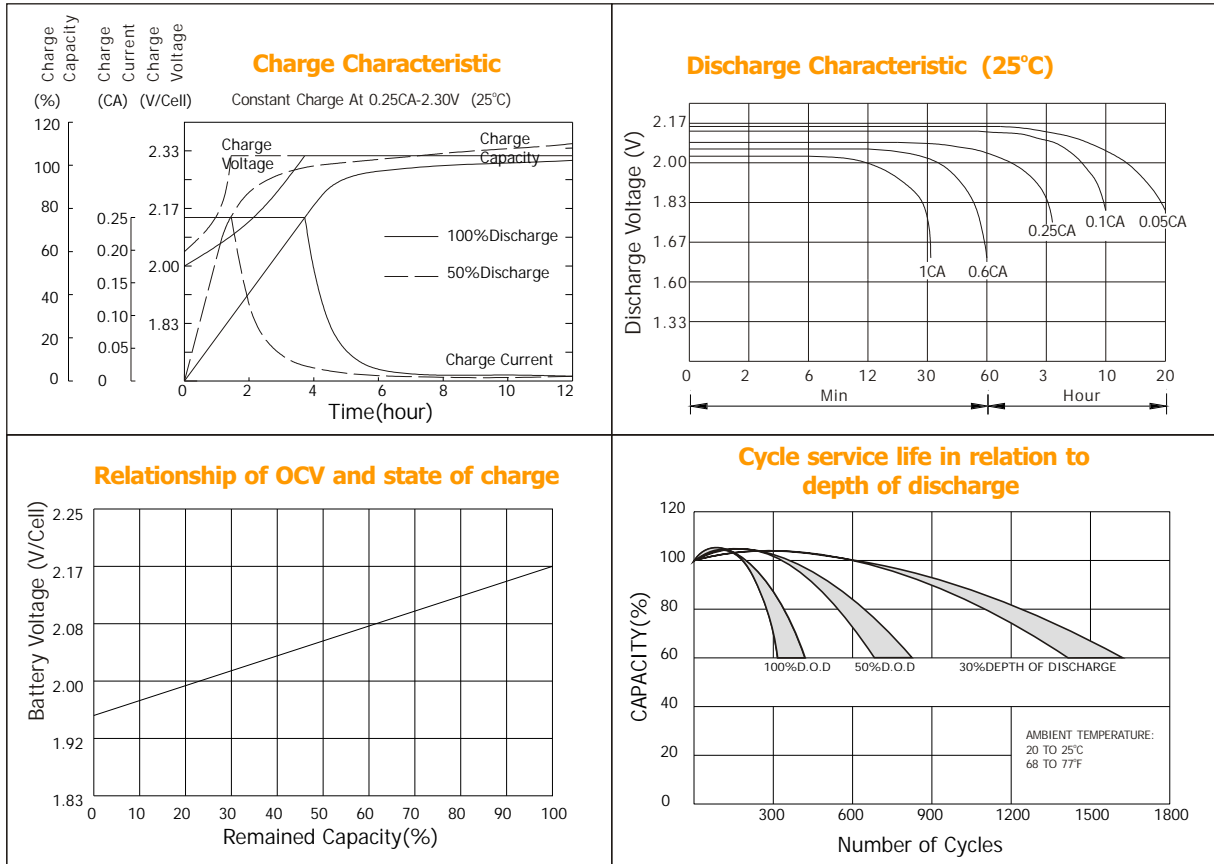


**Terminal Dimensions**



Battery Model	DC 12-250			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(25°C)	20HR(12.65A,1.75V)	10HR(25A,1.75V)	5HR(42.5A,1.75V)	1HR(162.5A,1.75V)
	253AH	250AH	212.5AH	162.5AH
Dimensions	Length	Width	Height	Total Height
	520mm [20.47inch]	268mm [10.55inch]	220mm [8.66inch]	249mm [9.8inch]
Approx. Weight	74Kg (163.17 lbs)			
Internal Resistance	Full charged at 25°C: 0.004 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: 62.5A		13.6-13.8V(-20mV/ °C)	

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

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	1093	680	513	313	195	85.6	52.3	28.5	15.4
1.67V	1026	645	494	299	193	82.4	51.2	28.2	14.9
1.70V	940	622	482	272	187	76.9	50.1	28.1	14.6
1.75V	922	602	466	258	178	74.3	49.0	28.0	14.2
1.80V	825	575	424	239	167	71.4	46.1	27.5	13.9
1.85V	728	548	381	220	155	68.8	43.2	27.1	13.5

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

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	1918	1228	937	564	352	152	88.5	58.6	30.7
1.67V	1851	1197	925	552	350	147	88.1	58.2	29.6
1.70V	1742	1185	917	517	343	141	86.9	57.8	29.3
1.75V	1754	1182	909	501	337	137	86.2	57.1	28.5
1.80V	1604	1164	843	478	318	133	83.5	56.4	27.8
1.85V	1455	1104	765	448	299	129	80.8	55.6	26.7

