

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**

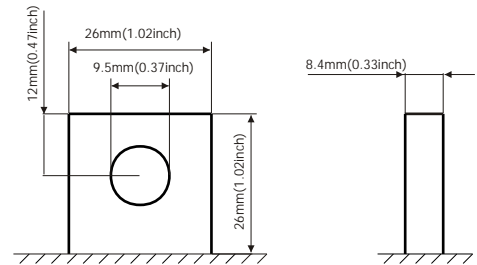
- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

**General Features**

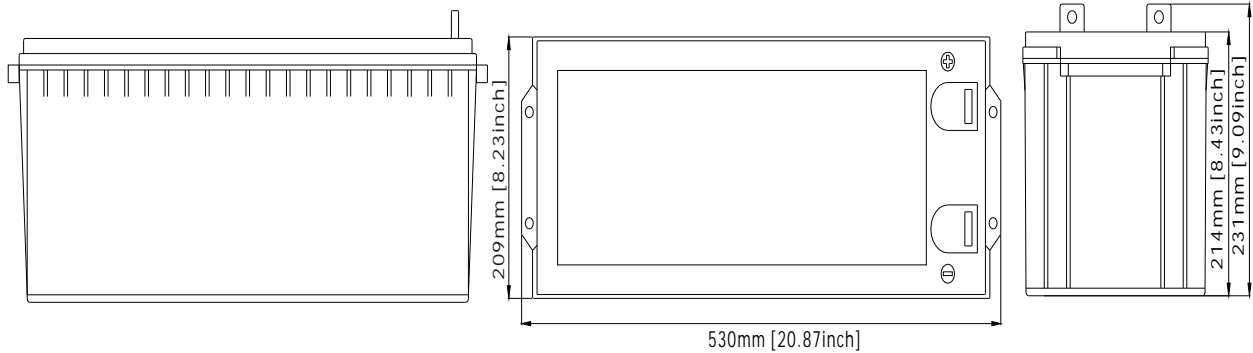
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

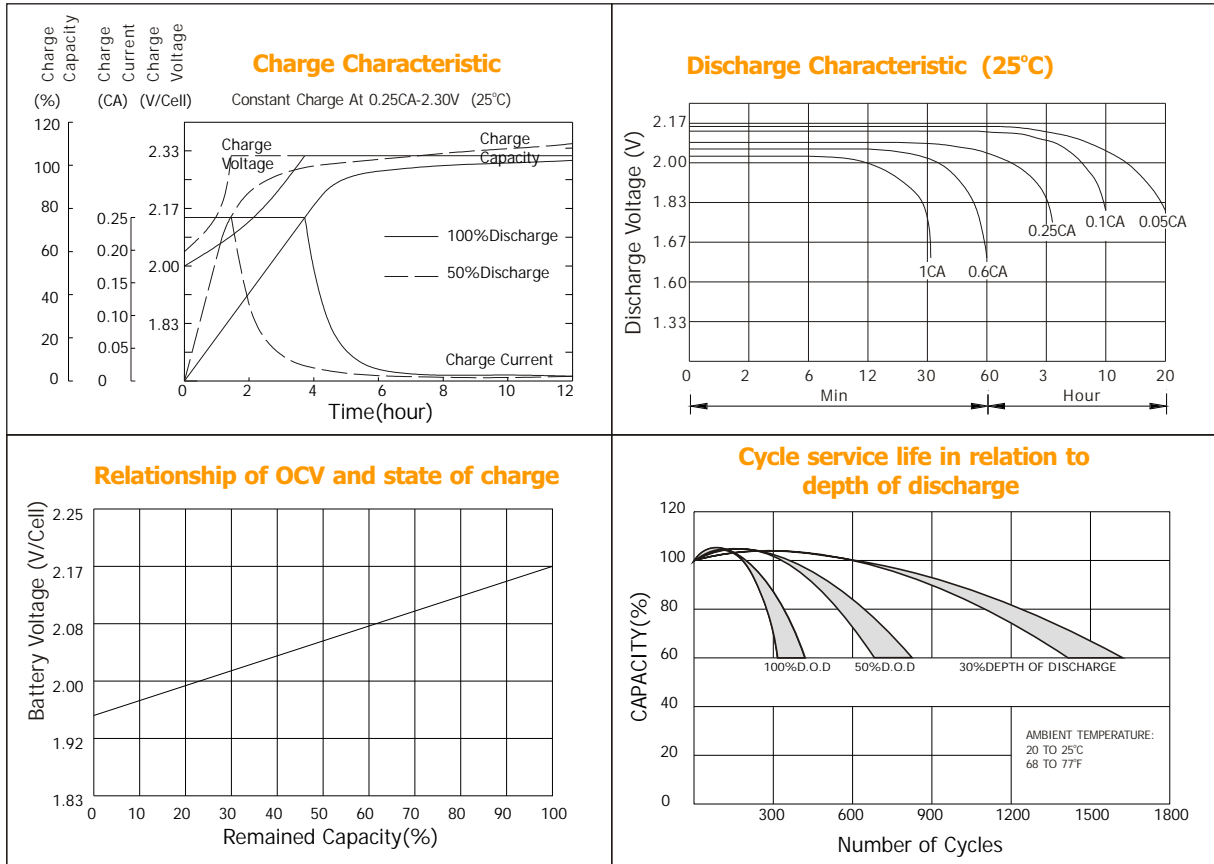


**Terminal Dimensions**



Battery Model	DC 12-160			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(25°C)	20HR(8.1A,1.75V)	10HR(16A,1.75V)	5HR(27.2A,1.75V)	1HR(104A,1.75V)
	162AH	160AH	136AH	104AH
Dimensions	Length	Width	Height	Total Height
	530mm(20.87inch)	209mm(8.23inch)	214mm(8.43inch)	231mm(9.09inch)
Approx. Weight	50Kg (110.25lbs)			
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: 40A		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	700	435	328	200	125	51.3	31.3	17.1	9.22
1.67V	657	413	316	192	123	49.3	30.7	16.9	8.89
1.70V	602	398	308	174	119	46.0	30.0	16.8	8.76
1.75V	590	386	298	165	114	44.5	29.3	16.8	8.53
1.80V	528	368	271	153	107	42.7	27.6	16.4	8.30
1.85V	466	351	244	141	99.3	41.2	25.8	16.2	8.07

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

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	1227	786	599	361	225	97.2	56.6	37.5	19.7
1.67V	1184	766	592	353	224	94.2	56.4	37.2	19.0
1.70V	1115	759	587	331	220	90.0	55.6	37.0	18.7
1.75V	1122	756	582	321	216	87.8	55.1	36.5	18.3
1.80V	1027	745	540	306	204	85.3	53.4	36.1	17.8
1.85V	931	707	490	287	191	82.7	51.7	35.6	17.1

