

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**

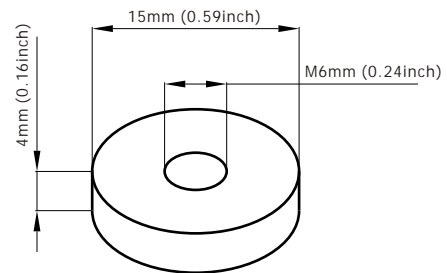
- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

**General Features**

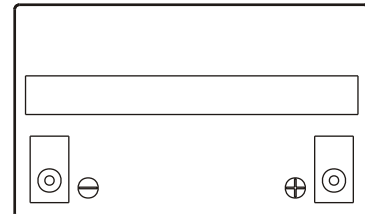
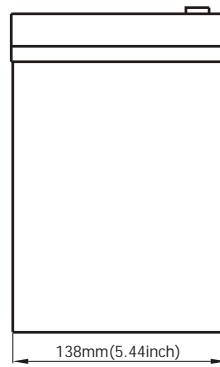
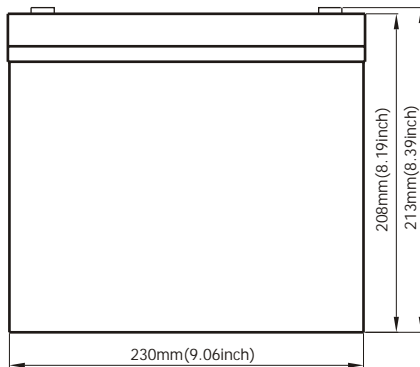
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

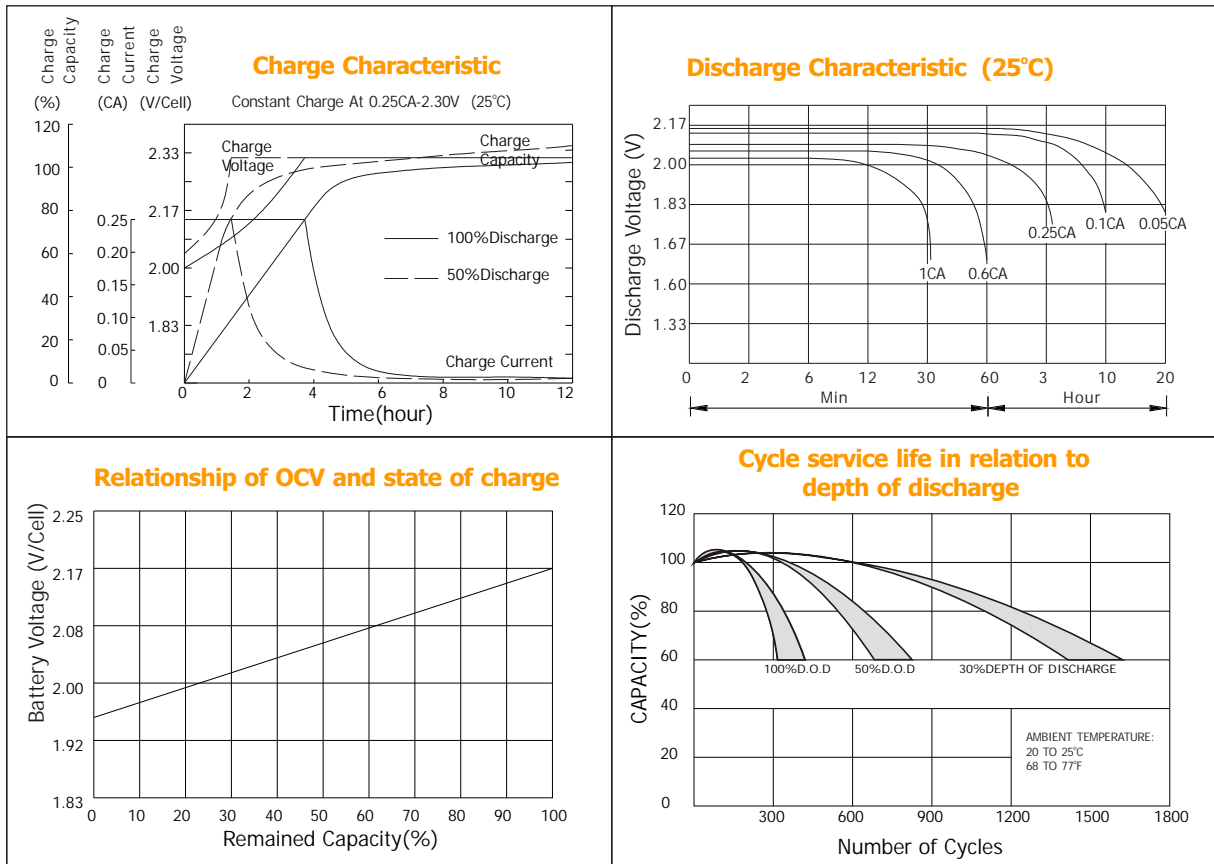


**Terminal Dimensions**



Battery Model	DC 12-55			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(25°C)	20HR(2.85A,1.75V)	10HR(5.5A,1.75V)	5HR(8.8A,1.75V)	1HR(33A,1.75V)
	57AH	55AH	44AH	33AH
Dimensions	Length	Width	Height	Total Height
	230mm(9.06inch)	138mm(5.44inch)	209mm(8.23inch)	213mm(8.39inch)
Approx. Weight	17Kg (37.49 lbs)			
Internal Resistance	Full charged at 25°C: 0.0058 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: 13A		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	236	147	111	67.6	39.8	17.5	10.7	5.71	3.09
1.67V	222	139	107	64.7	39.3	16.8	10.5	5.66	2.98
1.70V	203	134	104	58.8	38.1	15.7	10.2	5.63	2.93
1.75V	199	130	101	55.9	36.3	15.2	10.0	5.61	2.85
1.80V	178	124	91.6	51.8	34.0	14.6	9.41	5.50	2.78
1.85V	157	118	82.4	47.6	31.7	14.0	8.8	5.43	2.72

Constant power discharge ratings-watts at 25°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	415	266	203	122	71.8	31.0	18.0	11.7	6.00
1.67V	400	259	200	119	71.4	30.0	18.0	11.6	5.91
1.70V	377	256	198	112	70.0	28.7	17.7	11.5	5.82
1.75V	379	255	197	108	68.8	28.0	17.6	11.3	5.70
1.80V	347	252	182	103	64.9	27.2	17.0	11.2	5.62
1.85V	315	239	165	96.8	61.0	26.4	16.5	11.0	5.53

