

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

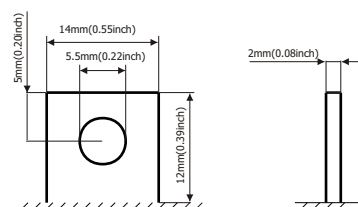
- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

General Features

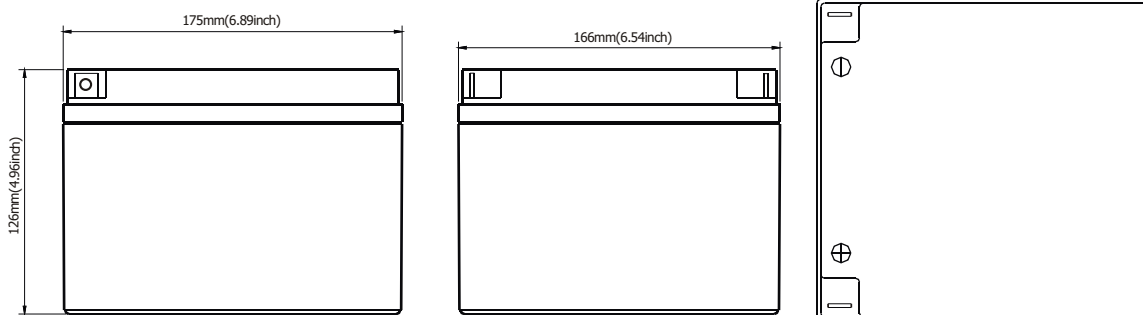
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

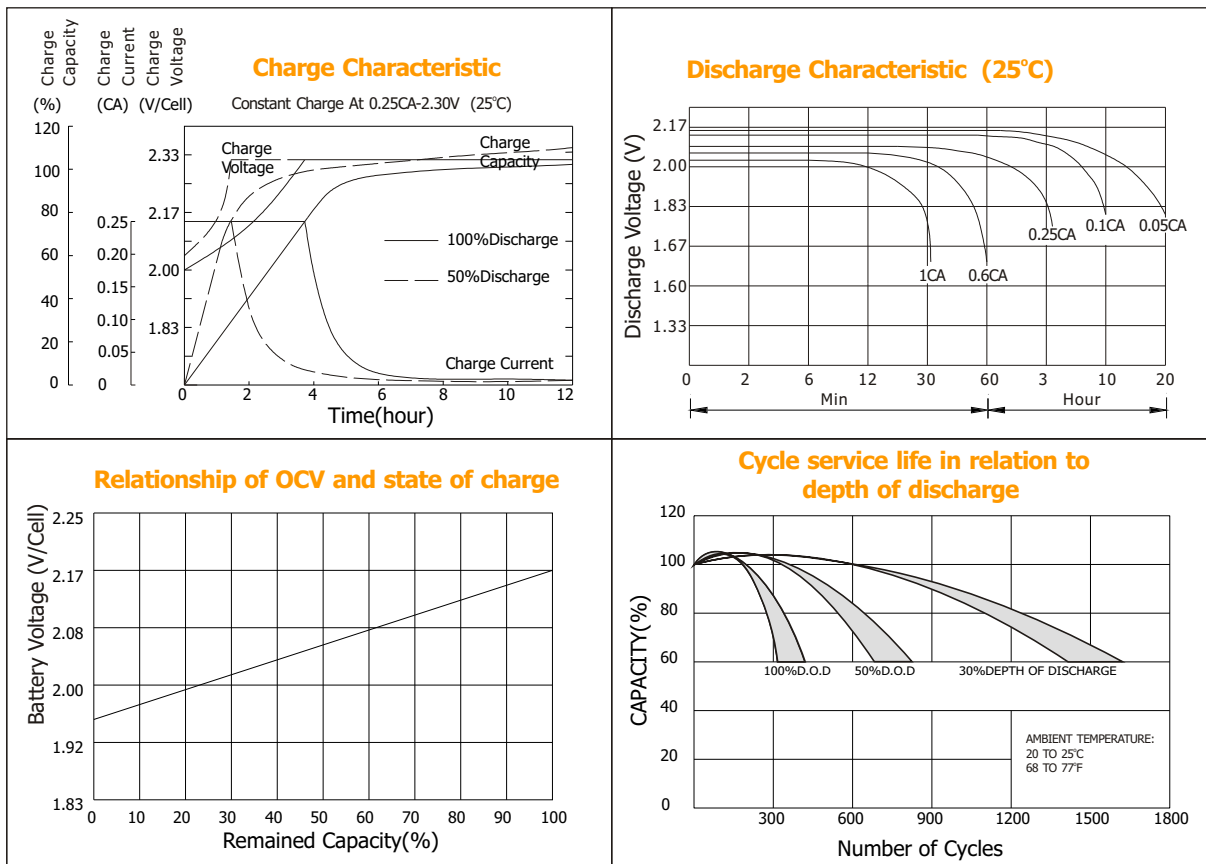
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFibre glass
- ElectrolyteSulfuric acid



Terminal Dimensions



Battery Model	DC 12-24			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(25°C)	20HR(1.25A,1.75V)	10HR(2.4A,1.75V)	5HR(4.08A,1.75V)	1HR(14.5A,1.75V)
	25AH	24AH	20.4AH	14.5AH
Dimensions	Length	Width	Height	Total Height
	175mm(6.89inch)	166mm(6.54inch)	125mm(4.92inch)	125mm(4.92inch)
Approx. Weight	8.6Kg (18.98 lbs)			
Internal Resistance	Full charged at 25°C: 0.012 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: 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	109	67.9	51.2	31.2	17.5	7.68	4.69	2.56	1.38
1.67V	102	64.4	49.3	29.9	17.3	7.38	4.59	2.53	1.33
1.70V	93.8	62.1	48.1	27.1	16.7	6.89	4.50	2.52	1.31
1.75V	92.0	60.1	46.5	25.8	15.9	6.66	4.40	2.51	1.28
1.80V	82.3	57.4	42.3	23.9	14.9	6.40	4.14	2.46	1.24
1.85V	72.6	54.7	38.0	22.0	13.9	6.17	3.87	2.43	1.21

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	193	123	94.2	56.7	31.8	13.7	7.99	5.29	2.78
1.67V	186	120	93.0	55.5	31.6	13.3	7.96	5.26	2.68
1.70V	175	119	92.2	52.0	31.0	12.7	7.85	5.22	2.65
1.75V	176	119	91.4	50.4	30.5	12.4	7.78	5.16	2.58
1.80V	161	117	84.8	48.1	28.7	12.0	7.54	5.09	2.51
1.85V	146	111	76.9	45.0	27.0	11.7	7.30	5.03	2.41

