

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

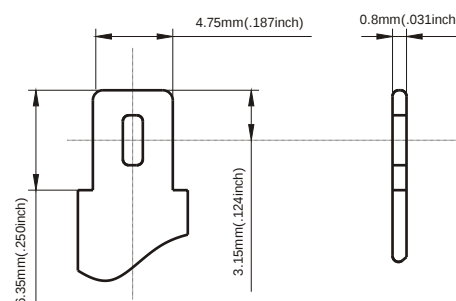
- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

General Features

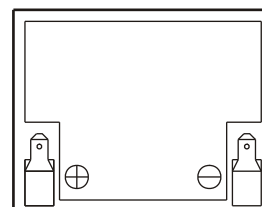
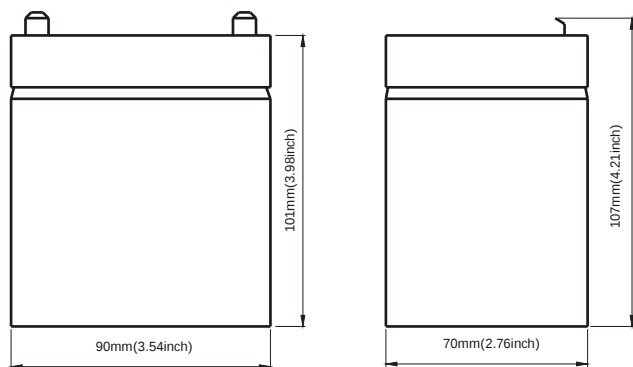
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

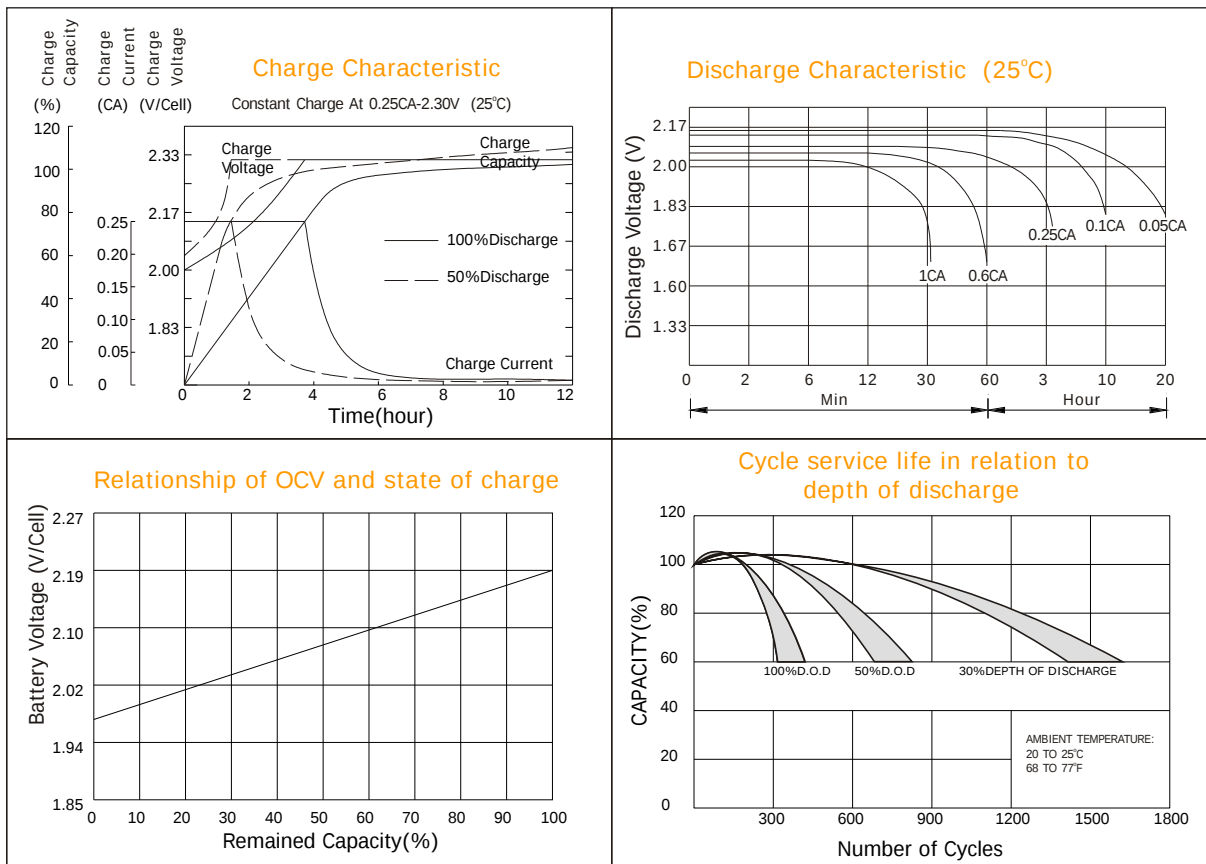
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFibre glass
- ElectrolyteSulfuric acid



Terminal Dimensions



Battery Model	DC12-5			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(25°C)	20HR(0.25A,1.75V)	10HR(0.45A,1.75V)	5HR(0.85A,1.75V)	1HR(3.25A,1.75V)
	5AH	4.5AH	4.25AH	3.25AH
Dimensions	Length	Width	Height	Total Height
	90mm(3.54inch)	70mm(2.76inch)	101mm(3.98inch)	107mm(4.21inch)
Approx. Weight	1.75Kg (3.86 lbs)			
Internal Resistance	Full charged at 25°C: 0.025 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: 1.5A		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	19.0	11.8	8.93	5.45	3.46	1.52	0.93	0.47	0.27
1.67V	17.9	11.2	8.59	5.21	3.42	1.46	0.91	0.46	0.26
1.70V	16.4	10.8	8.39	4.74	3.31	1.36	0.89	0.46	0.26
1.75V	16.0	10.5	8.12	4.50	3.16	1.32	0.87	0.46	0.25
1.80V	14.4	10.0	7.37	4.17	2.95	1.27	0.82	0.45	0.25
1.85V	12.7	9.54	6.63	3.84	2.75	1.22	0.77	0.44	0.24

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	33.4	21.4	16.3	9.81	6.25	2.70	1.57	0.96	0.55
1.67V	32.2	20.8	16.1	9.61	6.21	2.61	1.56	0.95	0.53
1.70V	30.3	20.6	16.0	9.00	6.09	2.49	1.54	0.94	0.52
1.75V	30.5	20.6	15.8	8.73	5.99	2.44	1.53	0.93	0.51
1.80V	27.9	20.3	14.7	8.32	5.64	2.36	1.48	0.92	0.49
1.85V	25.3	19.2	13.3	7.79	5.31	2.29	1.43	0.91	0.47

