

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

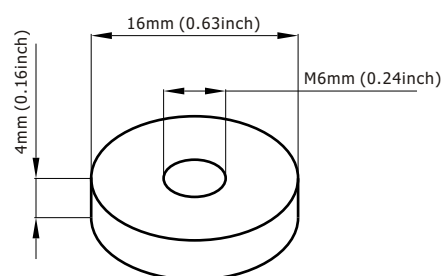
- Solar Energy System
- Golf Cars and Buggies
- Electric Powered Vehicles
- Wheel Chairs
- Power Tools
- Electric Powered Toys
- Control System
- Vacuum Cleaners
- Medical Equipments
- UPS

General Features

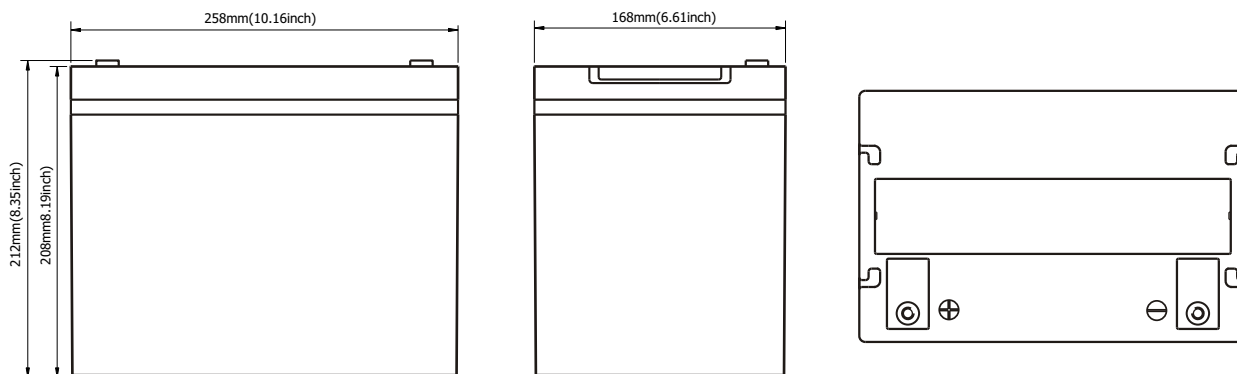
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

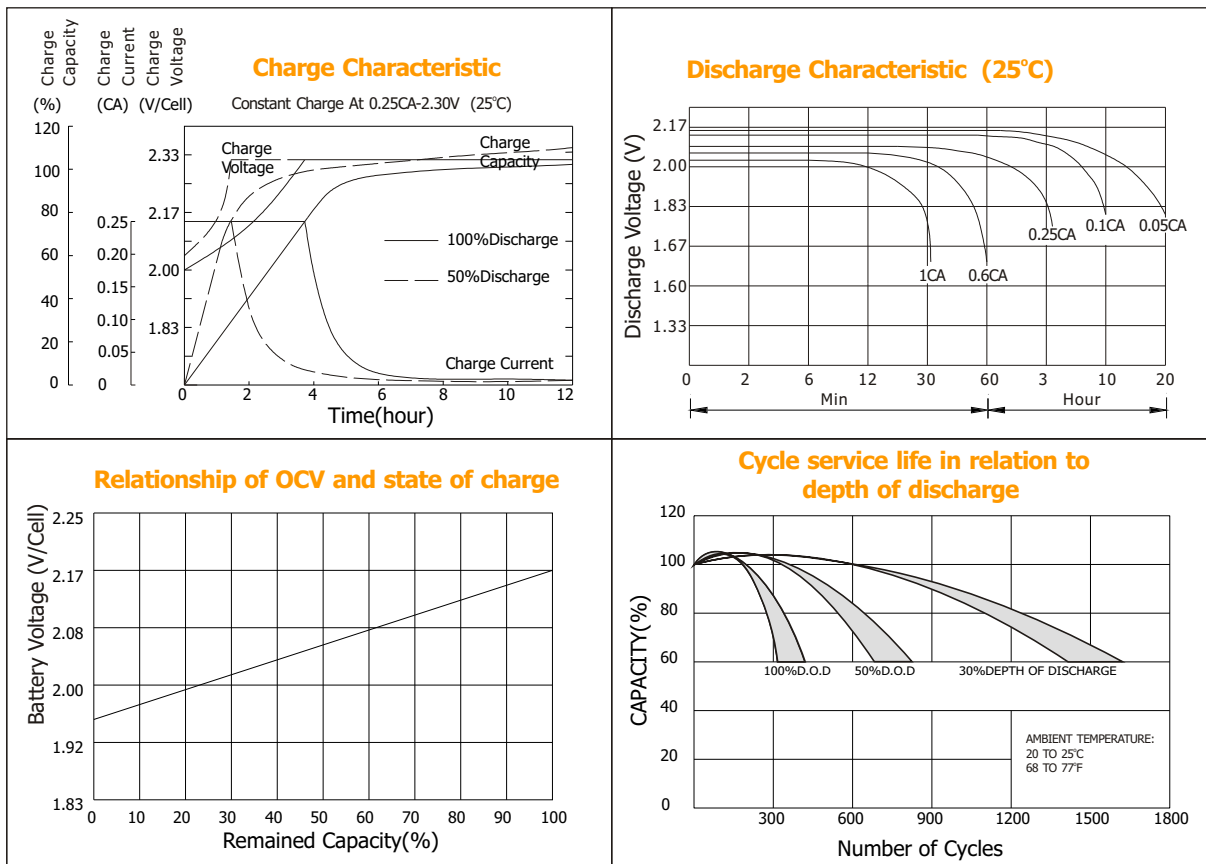
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFibre glass
- ElectrolyteSulfuric acid



Terminal Dimensions



Battery Model	DC 12-75			
Designed Cycle Life	> 350 cycles @ -0.5CA to 9.6V			
Capacity(25°C)	20HR(3.85A,1.75V)	10HR(7.5A,1.75V)	5HR(13A,1.75V)	1HR(49A,1.75V)
	77AH	75AH	65AH	49AH
Dimensions	Length	Width	Height	Total Height
	258mm(10.16inch)	168mm(6.61inch)	208mm(8.20inch)	212mm(8.35inch)
Approx. Weight	23Kg (50.72 lbs)			
Internal Resistance	Full charged at 25°C: 0.0057 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: 18A		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	319	199	150	91.3	54.0	23.7	14.5	7.89	4.26
1.67V	299	188	144	87.4	53.3	22.8	14.2	7.82	4.12
1.70V	274	182	141	79.4	51.7	21.3	13.9	7.78	4.05
1.75V	269	176	136	75.4	49.2	20.6	13.6	7.76	3.94
1.80V	241	168	124	69.9	46.1	19.8	12.8	7.60	3.84
1.85V	212	160	111	64.3	43.0	19.1	12.0	7.50	3.77

Constant power discharge ratings-watts at 25°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	560	358	273	164	97.5	42.1	24.5	16.0	8.40
1.67V	540	349	270	161	96.9	40.7	24.4	15.9	8.10
1.70V	509	346	268	151	95.1	38.9	24.1	15.8	8.00
1.75V	512	345	265	146	93.4	38.0	23.9	15.6	7.90
1.80V	468	340	246	140	88.1	36.9	23.1	15.4	7.72
1.85V	425	322	223	131	82.8	35.8	22.4	15.2	7.62

