

DB Series

DB (Duration) Series batteries utilizes thick grids of modern technology are adopted so as to guarantee the design life up to 12 years. Advanced micro porous absorbed glass matt separator - minimizes diffusion of oxygen into the separator, reducing float charge current which suppressed the corrosion rate of the positive grid and extends the life of the battery.

Application

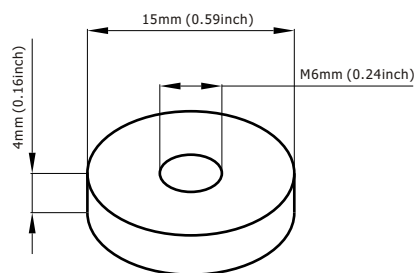
Cable Television	Control Equipment
Communication Equipment	Medical Equipment
Security System	Emergency Power System
UPS	Power Plant

General Features

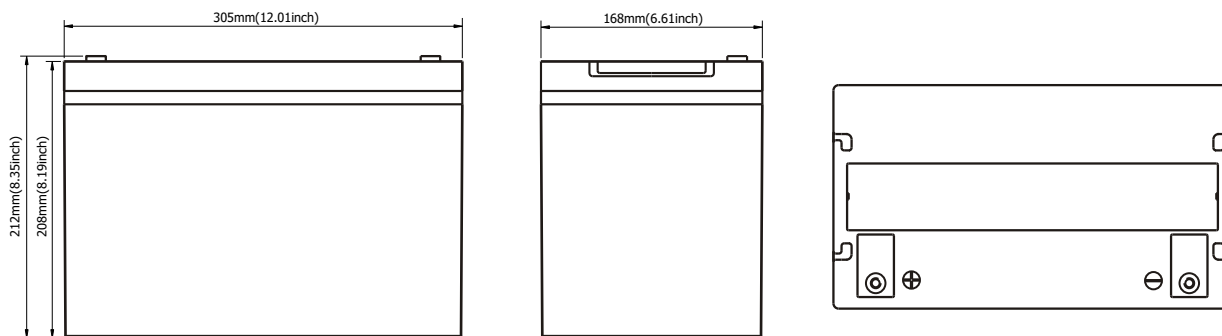
Sealed and maintenance free operation.
 Non-Spillable construction design.
 ABS containers and covers(UL94HB, UL94V-0) optional.
 Safety valve installation for explosion proof.
 High quality and high reliability.
 Exceptional deep discharge recovery performance.
 Low self discharge characteristic.
 Flexibility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

Construction

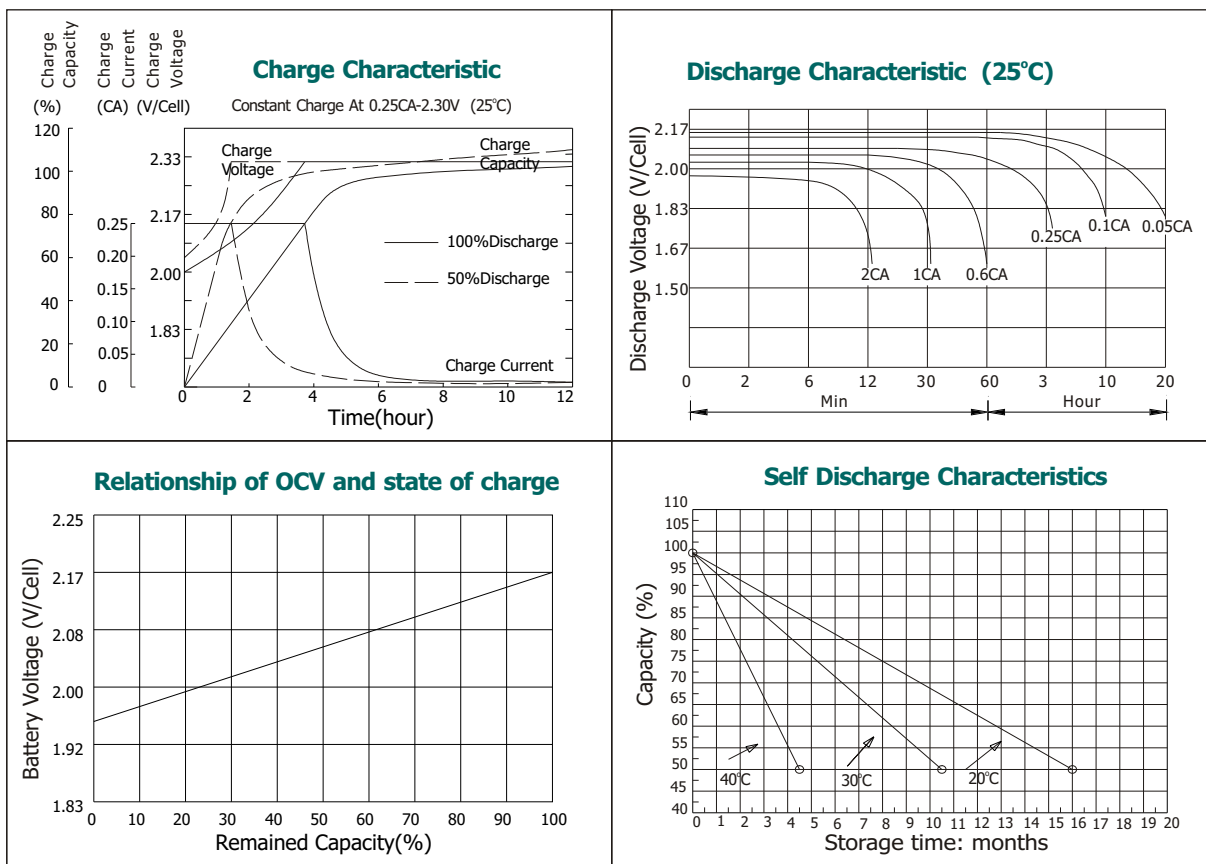
Component	Raw material	Sealant	Epoxy Resin
Positive	Lead dioxide	Safety valve	EPDR
Negative	Lead	Terminal	Pb Alloy
Container	ABS	Separator	Fiber glass
Cover	ABS	Electrolyte	Sulfuric acid



Terminal Dimensions



Battery Model	DB12-90			
Designed Floating Life	12 Years			
Capacity(25°C)	20HR(4.55A,1.75V)	10HR(9A,1.75V)	5HR(15.3A,1.75V)	1HR(54A,1.75V)
	91AH	90AH	76.5AH	54AH
Dimensions	Length	Width	Height	Total Height
	305mm(12.01inch)	168mm(6.61inch)	208mm(8.19inch)	212mm(8.35inch)
Approx. Weight	29Kg (63.95 lbs)			
Internal Resistance	Full charged at 25°C: 0.0045 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: 22.5A		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	315	216	158	95	59.4	24.6	17.2	9.5	4.74
1.67V	284	197	153	92	59.3	24.5	17.0	9.4	4.73
1.70V	269	190	148	90	59.1	24.5	17.0	9.3	4.73
1.75V	239	176	140	88	58.5	24.3	16.9	9.2	4.70
1.80V	216	163	133	86	57.8	24.2	16.8	9.0	4.54
1.85V	164	134	115	79	57.2	24.1	16.6	8.8	4.27

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	519	358	279	178	117	47.2	32.9	19.1	9.5
1.67V	492	354	276	175	113	47.2	32.9	18.8	9.5
1.70V	460	345	272	170	110	47.2	32.9	18.7	9.5
1.75V	428	322	256	166	109	46.4	32.5	18.3	9.4
1.80V	384	300	240	161	107	45.8	32.0	18.0	9.1
1.85V	308	248	210	148	106	45.6	31.5	17.7	8.5

