

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 suppresses the corrosion rate of the positive grid and extends the life of the battery

Application

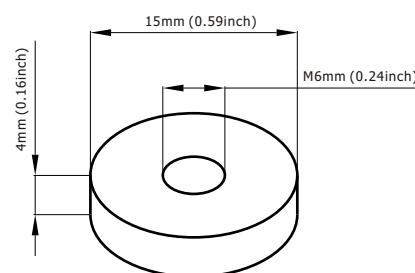
Cable Television	Control Equipment
Communication Equipment	Medical Equipment
Security System	Emergency Power System
UPS	Power Plant

General Features

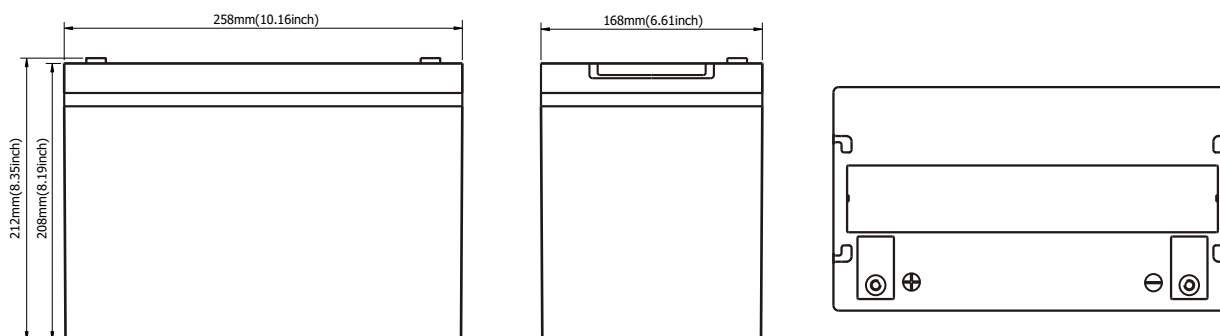
Sealed and maintenance free operation.
 Non-Spillable construction design.
 ABS containers and covers(UL94HB, UL94V-0) optional.
 Safety valve installation for explosion proof.
 High quality and high reliability.
 Exceptional deep discharge recovery performance.
 Low self discharge characteristic.
 Flexibility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

Construction

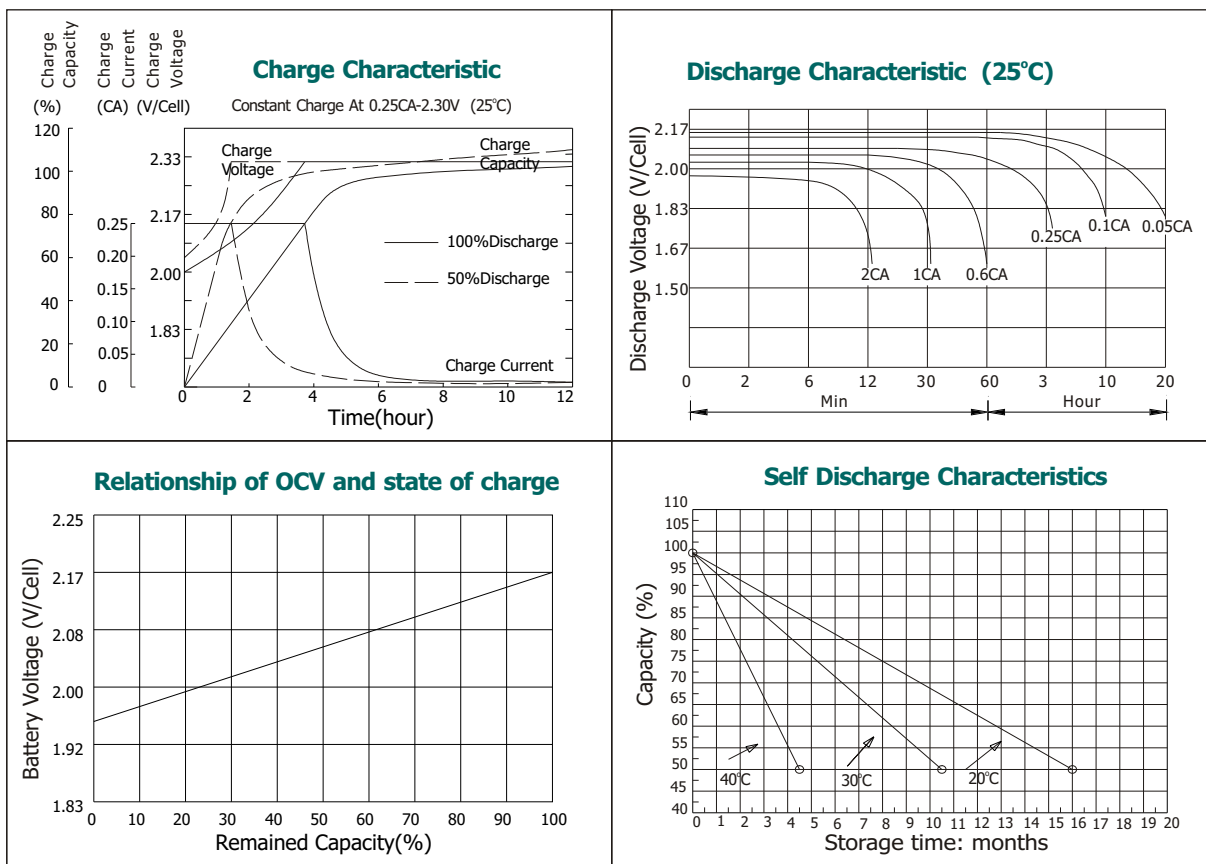
Component	Raw material	Sealant	Epoxy Resin
Positive	Lead dioxide	Safety valve	EPDR
Negative	Lead	Terminal	Pb Alloy
Container	ABS	Separator	Fiber glass
Cover	ABS	Electrolyte	Sulfuric acid



Terminal Dimensions



Battery Model	DB12-70			
Designed Floating Life	12 Years			
Capacity(25°C)	20HR(3.55A,1.75V)	10HR(7A,1.75V)	5HR(12A,1.75V)	1HR(42A,1.75V)
	71AH	70AH	60AH	42AH
Dimensions	Length	Width	Height	Total Height
	258mm(10.16inch)	168mm(6.61inch)	208mm(8.19inch)	212mm(8.35inch)
Approx. Weight	23.5Kg (50.72 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: 17.5A		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	245	168	123	73.5	46.2	19.1	13.4	7.42	3.69
1.67V	221	153	119	71.4	46.1	19.0	13.2	7.31	3.68
1.70V	209	148	115	70.0	46.0	19.0	13.2	7.25	3.68
1.75V	186	137	109	68.6	45.5	18.9	13.1	7.13	3.66
1.80V	168	127	104	66.5	44.9	18.8	13.0	7.01	3.53
1.85V	127	104	89.6	61.2	44.5	18.8	12.9	6.88	3.32

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	404	279	217	139	91.0	36.7	25.6	14.8	7.38
1.67V	383	275	215	136	88.0	36.7	25.6	14.6	7.35
1.70V	358	268	211	132	85.7	36.7	25.6	14.5	7.35
1.75V	333	251	199	129	84.9	36.1	25.3	14.3	7.32
1.80V	299	233	187	125	83.4	35.6	24.9	14.0	7.06
1.85V	239	193	163	115	82.7	35.5	24.5	13.8	6.64

