

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

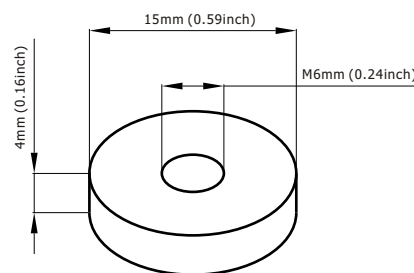
Cable Television	Control Equipment
Communication Equipment	Medical Equipment
Security System	Emergency Power System
UPS	Power Plant

General Features

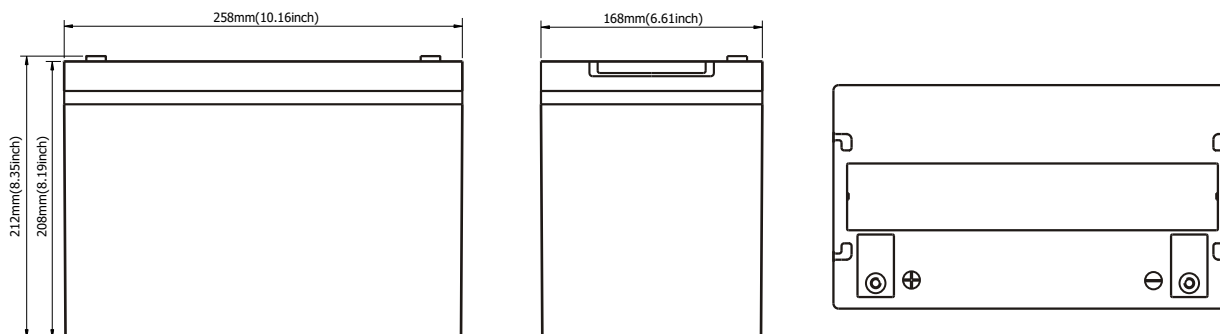
Sealed and maintenance free operation.
 Non-Spillable construction design.
 ABS containers and covers(UL94HB, UL94V-0) optional.
 Safety valve installation for explosion proof.
 High quality and high reliability.
 Exceptional deep discharge recovery performance.
 Low self discharge characteristic.
 Flexibility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

Construction

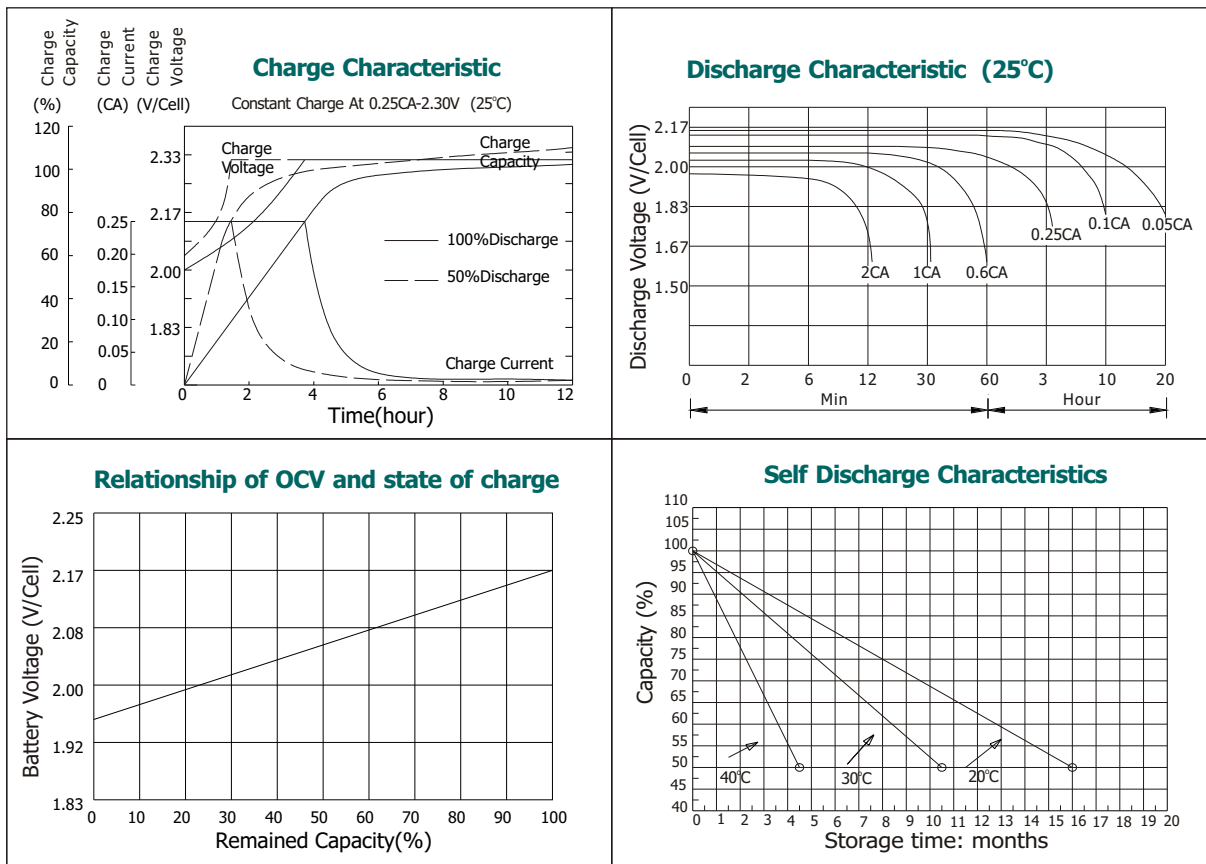
Component	Raw material	Sealant	Epoxy Resin
Positive	Lead dioxide	Safety valve	EPDR
Negative	Lead	Terminal	Pb Alloy
Container	ABS	Separator	Fiber glass
Cover	ABS	Electrolyte	Sulfuric acid



Terminal Dimensions



Battery Model	DB12-80			
Designed Floating Life	12 Years			
Capacity(25°C)	20HR(4.05A,1.75V)	10HR(8A,1.75V)	5HR(13.6A,1.75V)	1HR(48A,1.75V)
	81AH	80AH	68AH	48AH
Dimensions	Length	Width	Height	Total Height
	258mm(10.16inch)	168mm(6.61inch)	208mm(8.19inch)	212mm(8.35inch)
Approx. Weight	24Kg (52.92 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: 20A		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	280	192	140	84	52.8	21.8	15.3	8.5	4.22
1.67V	252	175	136	82	52.7	21.8	15.1	8.4	4.20
1.70V	239	169	131	80	52.6	21.8	15.1	8.3	4.20
1.75V	154	156	124	78	52.0	21.6	15.0	8.1	4.18
1.80V	192	145	118	76	51.4	21.5	14.9	8.0	4.03
1.85V	146	119	102	70	50.8	21.4	14.8	7.9	3.79

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	462	318	248	158	104	41.9	29.2	17.0	8.4
1.67V	438	314	246	155	101	41.9	29.2	16.7	8.4
1.70V	409	306	242	151	98	41.9	29.2	16.6	8.4
1.75V	381	286	227	147	97	41.3	28.9	16.3	8.4
1.80V	342	266	214	143	95	40.7	28.4	16.0	8.1
1.85V	274	221	186	131	94	40.6	28.0	15.7	7.6

