

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

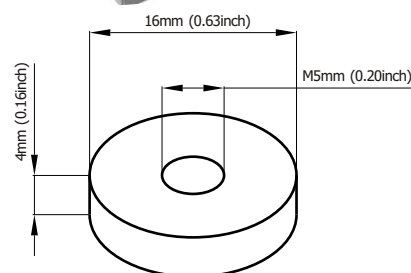
Cable Television	Control Equipment
Communication Equipment	Medical Equipment
Security System	Emergency Power System
UPS	Power Plant

General Features

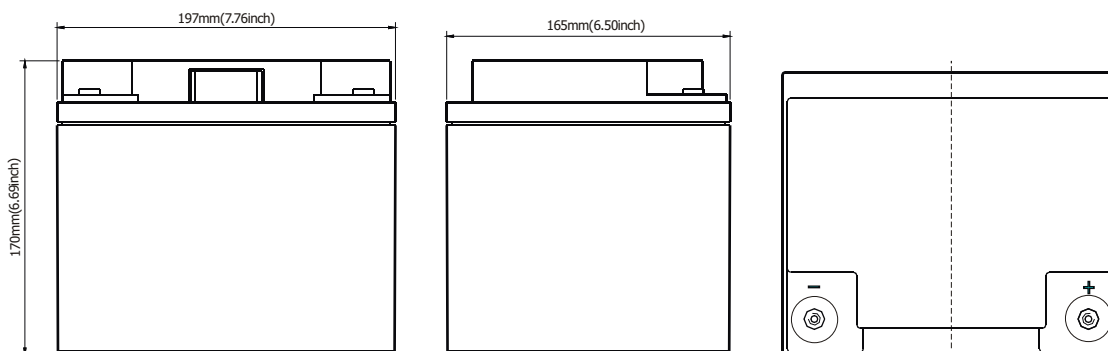
Sealed and maintenance free operation.
 Non-Spillable construction design.
 ABS containers and covers(UL94HB, UL94V-0) optional.
 Safety valve installation for explosion proof.
 High quality and high reliability.
 Exceptional deep discharge recovery performance.
 Low self discharge characteristic.
 Flexibility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

Construction

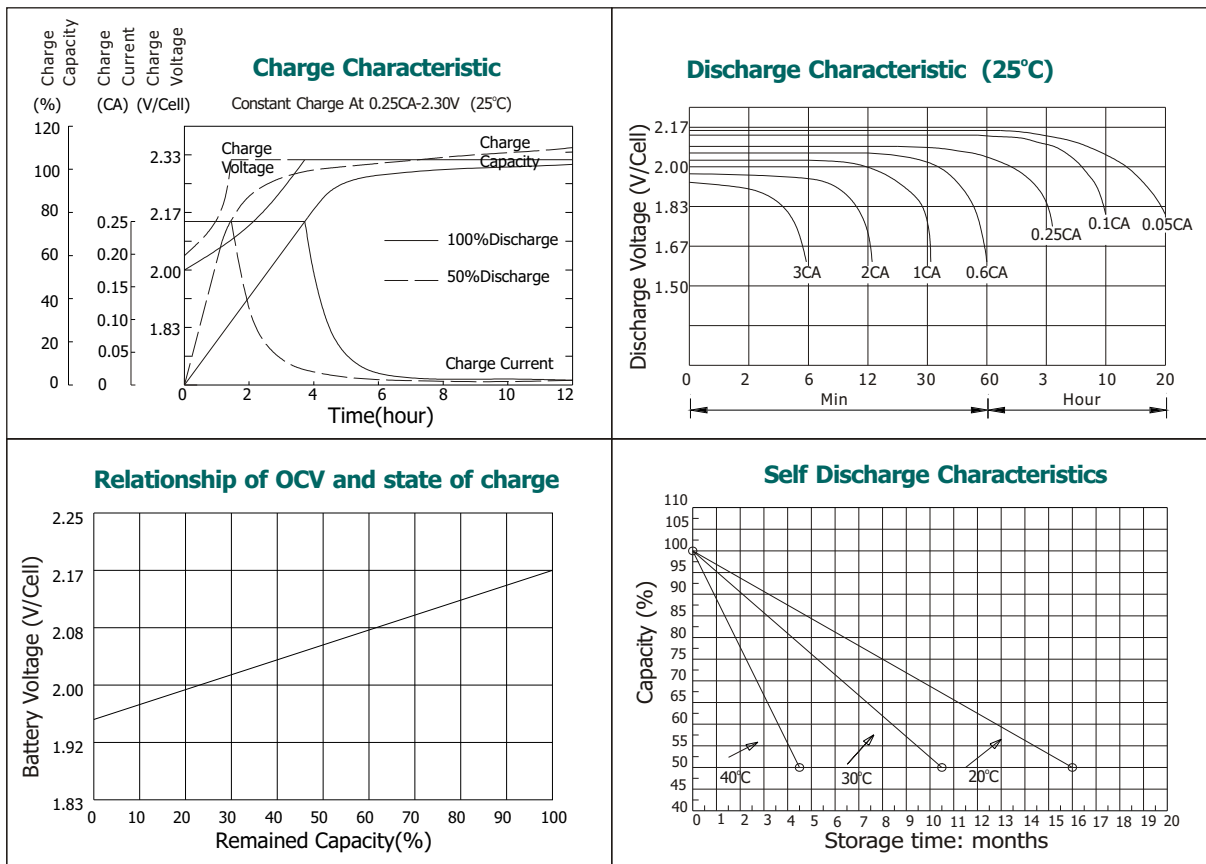
Component	Raw material	Sealant	Epoxy Resin
Positive	Lead dioxide	Safety valve	EPDR
Negative	Lead	Terminal	Pb Alloy
Container	ABS	Separator	Fiber glass
Cover	ABS	Electrolyte	Sulfuric acid



Terminal Dimensions



Battery Model	DB12-40			
Designed Floating Life	12 Years			
Capacity(25°C)	20HR(2.1A,1.75V)	10HR(4A,1.75V)	5HR(6.8A,1.75V)	1HR(24A,1.75V)
	42AH	40AH	34AH	24AH
Dimensions	Length	Width	Height	Total Height
	197mm(7.76inch)	165mm(6.50inch)	170mm(6.69inch)	170mm(6.69inch)
Approx. Weight	13.7Kg (30.2 lbs)			
Internal Resistance	Full charged at 25°C: 0.0095 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: 10A		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	140	96.0	70.0	42.0	26.4	10.9	7.63	4.24	2.11
1.67V	126	87.6	68.0	40.8	26.4	10.9	7.57	4.18	2.10
1.70V	120	84.4	65.6	40.0	26.3	10.9	7.57	4.15	2.10
1.75V	106	78.0	62.0	39.2	26.0	10.8	7.51	4.07	2.09
1.80V	96.0	72.4	59.2	38.0	25.7	10.8	7.45	4.00	2.02
1.85V	72.8	59.6	51.2	35.0	25.4	10.7	7.38	3.93	1.90

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	231	159	124	79.2	52.0	21.0	14.6	8.48	4.22
1.67V	219	157	123	77.6	50.3	21.0	14.6	8.36	4.20
1.70V	204	153	121	75.6	49.0	21.0	14.6	8.29	4.20
1.75V	190	143	114	73.6	48.5	20.6	14.4	8.15	4.18
1.80V	171	133	107	71.6	47.7	20.4	14.2	8.01	4.03
1.85V	137	110	93.2	65.6	47.2	20.3	14.0	7.87	3.79

