

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

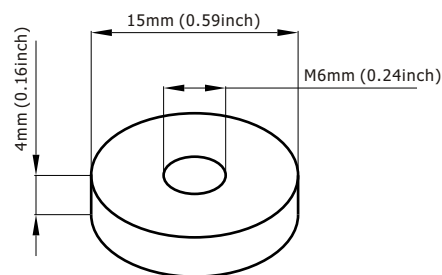
Cable Television	Control Equipment
Communication Equipment	Medical Equipment
Security System	Emergency Power System
UPS	Power Plant

General Features

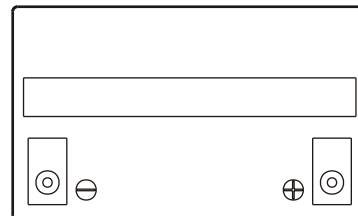
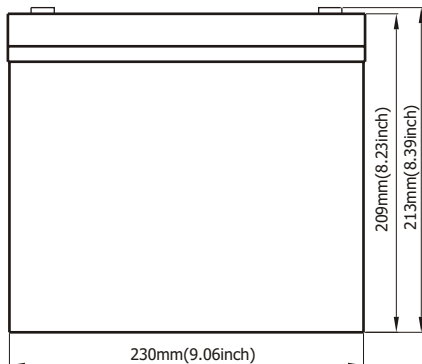
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

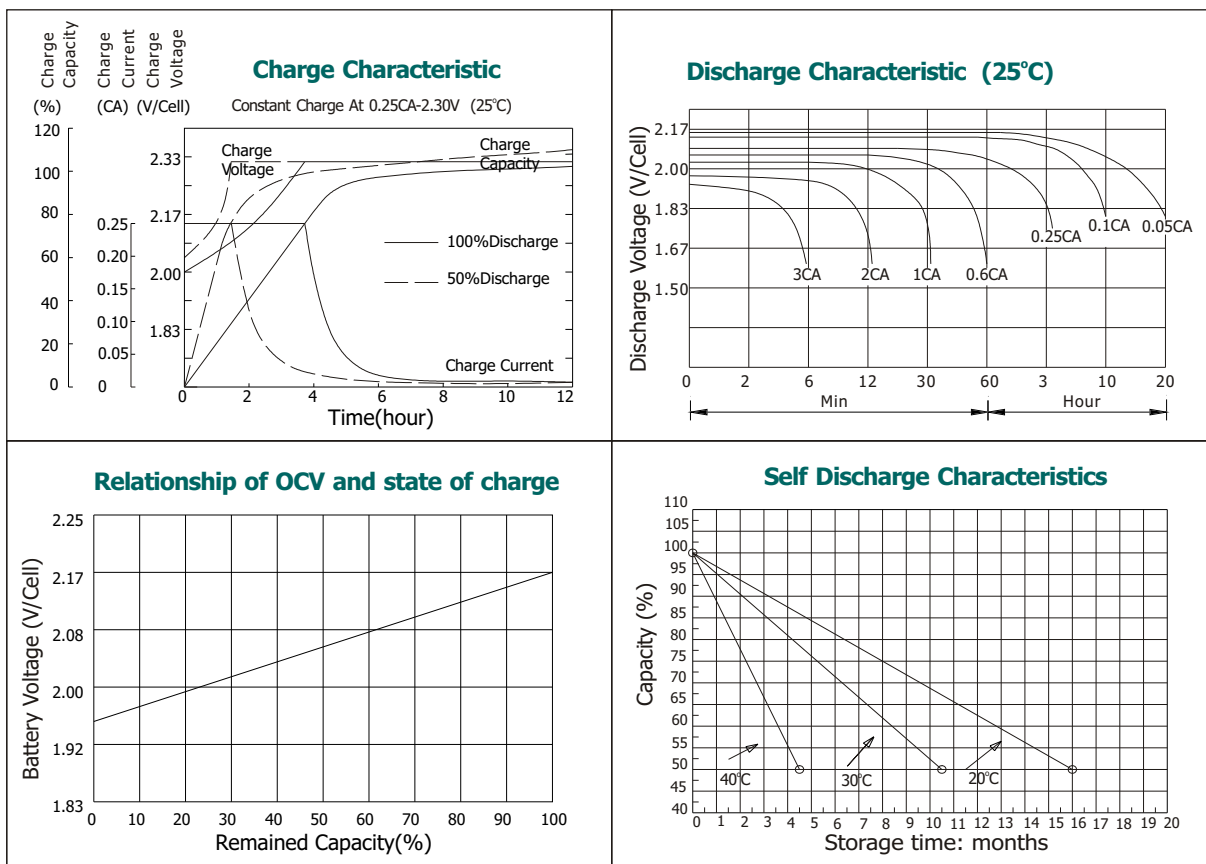
Component	Raw material	Sealant	Epoxy Resin
Positive	Lead dioxide	Safety valve	EPDR
Negative	Lead	Terminal	Pb Alloy
Container	ABS	Separator	Fiber glass
Cover	ABS	Electrolyte	Sulfuric acid



Terminal Dimensions



Battery Model	DB12-55			
Designed Floating Life	12 Years			
Capacity(25°C)	20HR(2.75A,1.75V)	10HR(5A,1.75V)	5HR(9.35A,1.75V)	1HR(33A,1.75V)
	55AH	50AH	46.75AH	33AH
Dimensions	Length	Width	Height	Total Height
	230mm(9.06inch)	138mm(5.44inch)	209mm(8.23inch)	213mm(8.39inch)
Approx. Weight	17.3Kg (38.15 lbs)			
Internal Resistance	Full charged at 25°C: 0.0058 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: 13A		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	182	125	91.0	54.6	34.3	14.2	9.92	5.51	2.74
1.67V	164	114	88.4	53.0	34.3	14.1	9.84	5.43	2.73
1.70V	155	110	85.3	52.0	34.2	14.1	9.84	5.39	2.73
1.75V	138	101	80.6	51.0	33.8	14.0	9.76	5.30	2.72
1.80V	125	94.1	77.0	49.4	33.4	14.0	9.68	5.20	2.62
1.85V	94.6	77.5	66.6	45.4	33.0	13.9	9.60	5.11	2.46

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	300	207	161	103	67.6	27.2	19.0	11.0	5.48
1.67V	284	204	160	101	65.4	27.2	19.0	10.9	5.46
1.70V	266	199	157	98.3	63.6	27.2	19.0	10.8	5.46
1.75V	248	186	148	95.7	63.1	26.8	18.8	10.6	5.44
1.80V	222	173	139	93.1	62.0	26.5	18.5	10.4	5.24
1.85V	178	144	121	85.3	61.4	26.4	18.2	10.2	4.93

